

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

2015年7月22日(水)13時～

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

第一会議室 (TV 会議 SPring-8 会議室)

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

講師：深井 周也 氏

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

(東京大学放射光連携研究機構生命科学部門)

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

タンパク質の立体構造で生命を理解する

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

—がん抑制や神経回路形成を例として

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

生命の設計図は DNA であるが、生命現象の現場で中心的な役割を担うのはタンパク質である。タ

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

ンパク質が多様な生体分子と相互作用して複合体を形成することで、物理的あるいは化学的なシグ

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

ナルを受容，伝達そして応答し，様々な生命現象が引き起こされる。したがって，生命を理解する

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

には、無数に存在するタンパク質複合体の作動機構を理解する必要がある。放射光連携研究機構生

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

命科学部門では、タンパク質複合体の立体構造決定によりその作動機構を明らかにし、様々な生命

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

現象の理解を進めてきた。

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

本セミナーでは、最近プレスリリースをおこなった「がん抑制の仕組み」「神経回路形成の仕組み」

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

み」に関する研究成果について紹介したい。

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放

関係所員： 松田 巖 (63402)

. Workshops & Meetings

“Advances and the prospects for the next stage of SPring-8 BL07LSU”

Date: 2014/2/19(Wed)

Place: Lecture Room (A632), 6th Floor, ISSP, the University of Tokyo

The soft X-ray beamline, SPring-8 BL07LSU, was constructed in 2009 and it has been used for experiments at the four beamline endstations, the three-dimensional (3D) nano-ESCA, the soft X-ray emission spectroscopy (XES), the time-resolved photoemission spectroscopy (TR-PES), and the free-port. In the present fiscal year, the significant results were reported from the beamline users and new three long-term projects were also begun. Moreover, development of a new polarization control in the undulator will start from the coming fiscal year. Thus, we organized a workshop at ISSP on February 19, 2014, to report the results and the plans of the individual researches and to discuss new science.

At the workshop, 83 and 72 researchers, especially many young scientists, are gathered at the first and the second days, respectively. The participants found that many scientifically significant works were achieved at SPring-8 BL07LSU and the further success was also expected with the upgraded beamline.

Program

- 10:00- **Present and future of Synchrotron Radiation Research Organization of University of Tokyo**
Yoshiyuki Amemiya (Graduate school of frontier sciences, the University of Tokyo)
- 10:10- **Status of Polarization-controlled undulator beamline SPring-8 BL07LSU**
Iwao Matsuda (ISSP, the University of Tokyo)
- 10:40- **Full Polarization Measurement of SR Emitted from ID07LSU at 400eV**
Hiroaki Kimura (JASRI / SPring-8)
- 11:10- **Novel magnetic ordering in solids revealed by resonant soft X-ray diffraction**
Hiroki Wadati (ISSP, the University of Tokyo)
- 11:50- **lunch**
- 13:00- **Observation of graphene transistors using operando photoemission electron microscopy**
Hirokazu Fukidome (Tohoku University)
- 13:30- **In situ/operando ultrahigh resolution soft X-ray emission spectroscopy, application to water and battery materials science**
Yoshihisa Harada (ISSP, the University of Tokyo)
- 14:00- **Carrier dynamics on semiconductor surfaces studied by time-resolved photoelectron spectroscopy: Present status and future prospect**
Susumu Yamamoto (ISSP, the University of Tokyo)
- 14:30- **Resonant Inelastic X-ray Scattering for Strongly Correlated Vanadium Oxides**
Hidenori Fujiwara (Osaka University)
- 15:00- **Poster short presentation**
- 15:30- **Coffee Break**
- 15:40- **Expectations in Soft-X-ray spectroscopy at Univ. Tokyo**
Takamori Arima (Graduate school of frontier sciences, the University of Tokyo)
- 16:20- **A comparative study of the surface photovoltage effect and carrier dynamics on anatase and rutile TiO₂**
Kenichi Ozawa (Tokyo Institute of Technology)
- 16:50- **Prospect for operando analysis of actual devices by 3DnanoESCA**
Naoka Nagamura (Tohoku University)
- 17:20- **Study of energy loss processes at donor/acceptor interfaces organicsolar cell by using time-resolved photoemission spectroscopy measurements**
Takeaki Sakurai (Tsukuba University)
- 17:50- **Closing address**
Fumio Komori (ISSP, the University of Tokyo)

放