

沿革・年表

History and Chronology

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|---------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                         |                                                                                  | 1982<br>超強磁場・極限レーザー実験棟竣工<br>Completion of Ultra-High Magnetic Field Laboratory<br>and Laser Laboratory building |                                                                                                      |
|                                                         |                                                                                  | 1981<br>日米協力事業（中性子散乱）の開始<br>Initiation of Japan-U.S. Cooperative Research Program<br>on neutron scattering      | 1996<br>柏キャンパス<br>実験棟建設着工<br>Construction of new ISSP<br>experimental buildings<br>in Kashiwa campus |
| 1960<br>物性研究所開所（六本木）<br>Inauguration of ISSP (Roppongi) | 1979<br>超低温物性研究棟竣工<br>Completion of Ultra-Low-Temperature<br>Laboratory building |                                                                                                                 | 1995<br>国際外部評価<br>International External Review (IER) of ISSP                                        |

| 1960                                                                                                                                                                                                                                                                                                                      | 1970 | 1980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1990 |
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| 1957<br>設立（駒場）<br>第一世代（1957～1980）<br>当時立ち遅れていた、物性分野の研究設備・体制を国際的水準に<br>高める拠点となることを目標に「東京大学附置全国共同利用研究<br>所」として設立された。<br><br>ISSP Established (Komaba Campus )<br>First generation (1957 - 1980)<br>Joint research institute to raise the level of condensed matter<br>physics research in Japan to international standards. |      | 1980<br>組織再編成<br>第二世代（1980～1996）<br>先端の実験技術を開発することを目標とした。重点5計画（超低<br>温物性・超強磁場・極限レーザー・表面物性・軌道放射物性）を進め、<br>極限的環境を創ると共に、その下での新しい物性の探索を行った。<br><br>Reorganization<br>Second generation (1980 - 1996)<br>Reorganized into five research priorities to develop advanced experimental<br>technologies that create extreme environments and explore new physical<br>properties: ultra-high magnetic fields, laser physics, surface science,<br>ultra-low temperature conditions, and very high pressure conditions. |      |

所内組織（部門・施設）の変遷 Organizational (department and facilities) changes

|      |                                                |
|------|------------------------------------------------|
| 1957 | 電波分光 Radio and Microwave Spectroscopy          |
|      | 理論第2 Theory II                                 |
|      | 結晶第1 Crystallography I                         |
| 1958 | 誘電体 Ferroelectrics and Quantum Electronics     |
|      | 光物性 Optical Properties divisions               |
|      | 極低温 Low Temperature                            |
|      | 磁気第1 Magnetism I                               |
| 1959 | 半導体 Semiconductor                              |
|      | 分子 Molecular Physics                           |
|      | 格子欠陥 Lattice Imperfections                     |
|      | 塑性 Plasticity                                  |
|      | 放射線物性 Nuclear Radiation division               |
|      | 超低温物性 Ultra-low temperatures                   |
| 1960 | 結晶第2 Crystallography II                        |
|      | 理論第1 Theory I                                  |
|      | 固体核物性 Solid State Nucleus                      |
|      | 界面物性 Surface Properties and Molecular Science  |
| 1961 | 磁気第2 Magnetism II                              |
|      | 非晶体 Solid Materials                            |
|      | 1964 無機物性 Inorganic Materials                  |
|      | 超高压 High Pressure                              |
|      | 理論第3 Theory III                                |
| 1969 | 中性子回折 Neutron Diffraction                      |
| 1972 | 固体物性(客員) Solid State (visiting staff)          |
| 1973 | 軌道放射物性研究施設<br>Synchrotron Radiation Laboratory |

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|--------|-------------------------------------------|
| 極限物性部門 | Division of Physics in Extreme Conditions |
| 極限レーザー | Laser physics                             |
| 表面物性   | Surface science                           |
| 超強磁場   | Ultra-high magnetic field                 |
| 超低温物性  | Ultra-low temperatures                    |
| 超高压    | Very high pressure                        |

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| 凝縮系物性部門 | Division of Condensed Matter |
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| 1989 新物質開発部門 | Division of Materials Development |
|--------------|-----------------------------------|

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|------|--------------------|
| 理論部門 | Division of Theory |
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| 中性子回折物性部門      | Division of Neutron Diffraction |
| 1993 中性子散乱研究施設 | Neutron Scattering Laboratory   |

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|----------|-----------------------------------|
| 軌道放射物性部門 | Division of Synchrotron Radiation |
|----------|-----------------------------------|

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|----------|----------------------------------|
| 軌道放射物性施設 | Synchrotron Radiation Laboratory |
|----------|----------------------------------|

従来の 22 部門 (客員一部門含む) が極限物性部門 (超強磁場、極限レーザー、表面物性、超低温物性及び超高压)、軌道放射物性部門、中性子回折物性部門、凝縮系物性部門ならびに理論部門の 5 大部門及び客員 部門 1 に再編成される  
Reorganization of ISSP from 22 small divisions into five large divisions,  
Physics in Extreme Conditions (including ultra-high magnetic field, laser physics, surface science, ultra-low temperatures and very high-pressure),  
Synchrotron Radiation, Neutron Diffraction, Condensed Matter and Theory  
divisions and one Visiting Staff division.

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| <div>1997<br/>日米協力事業(中性子散乱)の国際外部評価<br/>IER of the Japan-U.S. cooperative program on neutron scattering</div> <div>1999<br/>柏キャンパスへの移転開始(～2000.3.31)<br/>Relocation to Kashiwa campus(～2000.3.31)</div>                                                                                                                                                                                                                    | <div>2004<br/>東京大学が国立大学法人東京大学となる<br/>The University of Tokyo became a National University Corporation</div> <div>2005<br/>国際外部評価<br/>IER of ISSP</div> <div>2007<br/>創立 50 周年事業<br/>50th year anniversary celebration</div> | <div>2014<br/>日米協力事業(中性子散乱)の国際外部評価<br/>IER of the Japan-U.S. cooperative program on neutron scattering</div> <div>2016<br/>国際外部評価<br/>IER of ISSP</div> <div>2020<br/>国際外部評価<br/>IER of ISSP</div>                                                                                                                                                                          | <div>2024<br/>日米協力事業(中性子散乱)の国際外部評価<br/>IER of the Japan-U.S. cooperative program on neutron scattering</div> <div>2026<br/>国際外部評価<br/>IER of ISSP</div>                                                                                                                                |
| 200020102020                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                        |
| <div>1996<br/>組織再編成<br/>第三世代(1996～2026)<br/>伝統的な固体物理学の枠組みを越えた、物性科学の総合的研究を展開し、物性研究の国際的拠点を目指した。<br/><br/>Reorganization<br/>Third generation (1996 -2026)<br/>To develop a comprehensive research organization to expand the traditional condensed matter physics framework and develop an international center of excellence in condensed matter research.</div>                                                           |                                                                                                                                                                                                                             | <div>2010<br/>共同利用・共同研究拠点として認可<br/>Authorization as a joint usage / research center</div>                                                                                                                                                                                                                                                                                   | <div>2026<br/>組織再編成<br/>第四世代(2026～)<br/>研究基盤の開発・提供と人材育成を通じて、物性科学を進展させ、社会に貢献する<br/><br/>Reorganization<br/>Fourth generation (2026 - )<br/>Providing research infrastructure and contributing to society through the advancement of materials science and researcher development.</div> |
| 先端分光研究部門<br>Division of Advanced Spectroscopy                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                             | 2012 極限コヒーレント光科学研究センター<br>Laser and Synchrotron Research Center (LASOR)<br>軌道放射物性研究施設<br>Synchrotron Radiation Laboratory                                                                                                                                                                                                                                                   | 極限コヒーレント光科学研究センター<br>Laser and Synchrotron Research Center (LASOR)<br>軌道放射物性研究施設<br>Synchrotron Radiation Laboratory                                                                                                                                                                   |
| 先端領域研究部門<br>Division of Frontier Areas Research                                                                                                                                                                                                                                                                                                                                                                           | 2004 ナノスケール物性研究部門<br>Division of Nanoscale Science                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                             | 量子ナノ物性研究センター<br>Nanoscale Quantum Science Center                                                                                                                                                                                                                                       |
| 極限環境物性研究部門<br>Division of Physics in Extreme Conditions                                                                                                                                                                                                                                                                                                                                                                   | 2006 国際超強磁場科学研究施設<br>International MegaGauss Science Laboratory                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                             | 国際超強磁場科学研究施設<br>International MegaGauss Science Laboratory                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                             | 2016 凝縮系物性研究部門<br>Division of Condensed Matter Science                                                                                                                                                                                                                                                                                                                      | 先端計測研究部門<br>Division of Advanced Measurements                                                                                                                                                                                                                                          |
| 新物質科学研究部門<br>Division of New Materials Science                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                             | 多様物性研究部門<br>Division of Diverse Condensed Matter Science                                                                                                                                                                                                                               |
| 物質設計評価施設<br>Materials Design and Characterization Laboratory                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                             | 物質創成研究センター<br>Center for New Materials Research                                                                                                                                                                                                                                        |
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| 物性理論研究部門<br>Division of Condensed Matter Theory                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                             | 物性理論研究部門<br>Division of Condensed Matter Theory                                                                                                                                                                                                                                        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                           | 2003 中性子科学研究施設<br>Neutron Science Laboratory                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                             | 中性子科学研究施設<br>Neutron Science Laboratory                                                                                                                                                                                                                                                |
| 軌道放射物性研究施設<br>Synchrotron Radiation Laboratory                                                                                                                                                                                                                                                                                                                                                                            | 2012 極限コヒーレント光科学研究センターへ再編<br>Reorganized into LASOR                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 2011 計算物質科学研究センター<br>Center of Computational Materials Science                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                             | 数値物性科学研究施設<br>Numerical Materials Research Laboratory                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 2016 横断型組織<br>機能物性研究グループ<br>Functional Materials Group<br>量子物質研究グループ<br>Quantum Materials Group                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 2019 データ統合型材料物性研究部門<br>Division of Data-Integrated Materials Science                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                             | データ統合型材料物性研究部門<br>Division of Data-Integrated Materials Science                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 2025 ビジュアライズ CPS 寄付研究部門<br>Visualize CPS Platform, Corporate Sponsored Research Programs                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                             | ヴィジュアライズ CPS 研究部門<br>Division of Visualize CPS                                                                                                                                                                                                                                         |
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| 新物質科学、物性理論、先端領域、極限環境物性、先端分光の5大研究部門と軌道放射研究施設、中性子散乱研究施設に新たに物質設計評価施設を加えた3施設に再編される<br>Reorganized into five divisions; New Materials Science, Condensed Matter Theory, Frontier Areas Research, Physics in Extreme Conditions and Advanced Spectroscopy, and relocated to three facilities; the Synchrotron Radiation Laboratory, the Neutron Scattering Laboratory and the Materials Design and Characterization Laboratory. |                                                                                                                                                                                                                             | 物性理論、先端計測、多様物性の3部門と、物質創成研究センター、数値物性科学研究施設、量子ナノ物性研究センターを加えた6施設に再編される<br>Reorganized into three divisions; Condensed Matter Theory, Advanced Measurements, Diverse Condensed Matter Science, and reorganized into six facilities, including the addition of the Nanoscale Quantum Science Center, Center for New Materials Research, Numerical Materials Research Laboratory. |                                                                                                                                                                                                                                                                                        |