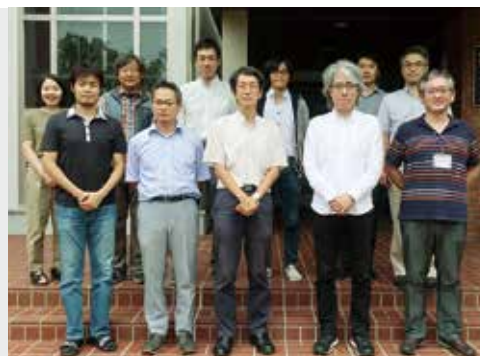


Center for Mesoscopic Sciences

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|--------------------------------|----------------------------------|
| OKAMOTO, Hiromi | Director, Professor |
| OHMORI, Kenji | Professor |
| IINO, Ryota | Professor |
| TAIRA, Takunori | Associate Professor |
| FUJI, Takao | Associate Professor |
| (the late) NOBUSADA, Katsuyuki | Associate Professor |
| SUGIMOTO, Toshiki | Associate Professor |
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| ISHIZUKI, Hideki | Assistant Professor |
| NOMURA, Yutaka | Assistant Professor |
| SHIRAI, Hideto | IMS Research Assistant Professor |
| OKANO, Yasuaki | Technical Associate |
| MASUDA, Michiko | Secretary |
| NOMURA, Emiko | Secretary |



As the succeeding organization of former Laser Research Center for Molecular Science, Center for Mesoscopic Sciences continues development of new experimental apparatus and methods to open groundbreaking research fields in molecular science, in collaboration with other departments and facilities. Those new apparatus and methods will be served as key resources in advanced collaboration with the researchers from the community of molecular science. The targets cover:

- advanced photon sources ranging from terahertz to soft X-ray regions

- novel quantum-control schemes based on intense and ultra-fast lasers
- novel optical imaging and nanometric microscopy and so forth.

The Center also possesses several general-purpose instruments for laser-related measurements (commercial as well as in-house developed), and lends them to researchers in IMS who conduct laser-based studies, so as to support and contribute to their advanced researches.

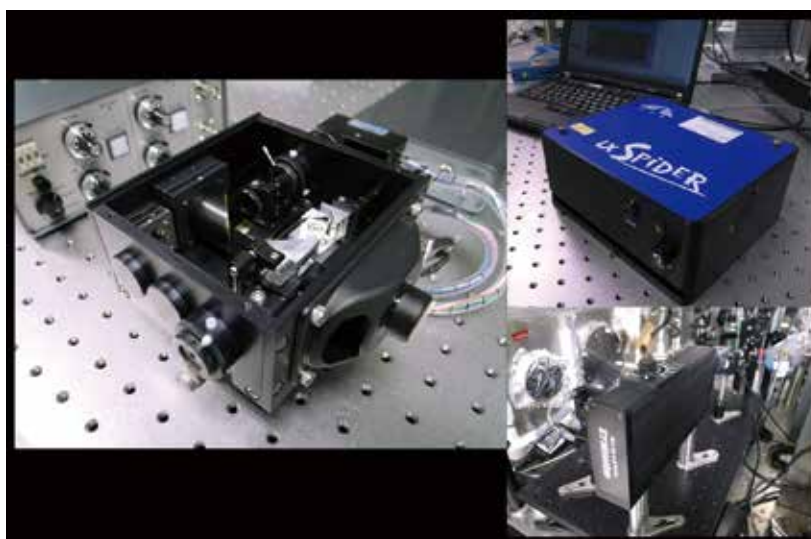


Figure 1. (left) A Fringe-Resolved Autocorrelation (FRAC) apparatus for sub-10 fs pulse characterization designed in the Center. (upper right) Spectral Phase Interferometry for Direct Electric-Field Reconstruction (SPIDER) and (lower right) Frequency-Resolved Optical Gating (FROG) apparatuses for general-purpose ultrashort pulse characterization.