

Research Information



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Research Field

Research on ultrafast phenomena in nano-scale space by using ultra short electron pulse. The physical and chemical processes are observed by femtosecond (10^{-15} s) pulse radiolysis and nano-scale structures are also investigated by femtosecond time-resolved electron microscopy.

Research Facility



Femtosecond
electron
accelerator



Femtosecond
electron
microscope

Research Activities

1. Study of fundamental process of advanced nanofabrication
2. Development of femto/atto-second pulse radiolysis technique
3. Study of atto-second electron beam generation and characterization
4. Development of femtosecond time-resolved MeV electron microscopy and electron diffraction

Comments

Message to students and potential collaborators:
Join us to investigate the fast process world !

https://www.sanken.osaka-u.ac.jp/en/organization/nnc/nnc_02/