

東京大学大学院工学系研究科 総合研究機構

結晶界面工学研究室

Crystal Interface Laboratory, The University of Tokyo

Crystal Interface Lab. Seminar Series

Atomic-scale Evolution of Nanoprecipitates in Advanced Functional Materials

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Precipitates at nanometer scale play very important role in the synthesis and physical properties of advanced functional materials. With state-of-the-art Cs-corrected scanning transmission electron microscopy (STEM) techniques, the evolutions of the nanoprecipitates were revealed with atomic resolution. Here we demonstrate two examples: (i) the evolution of nanoprecipitates in mixed phase BiFeO₃ thin film grown by pulsed laser deposition method; (ii) phase separation and cation ordering in Cu₂Zn_xSn_{1-x}S₃ ceramics sintered by spark plasma sintering technique.

February 12(Fri), 2016 13:30 – 14:30

Main meeting room at Institute of Engineering Innovation, UT

(工学部総合研究機構 9号館 1階 大会議室)

Organizer: Professor Yuichi Ikuhara