

Planning Lecture | Technical division and Network | Nuclear Fuel Division

[3K_PL]Concepts and Basic Design of Diverse Nuclear Fuels

Development of Nuclear Fuels for Future Reactors

Chair: Masayoshi Uno (Univ. of Fukui)

Fri. Mar 19, 2021 1:00 PM - 2:30 PM Room K (Zoom room 11)

[3K_PL08]Discussion

We will discuss the fuel development for future nuclear reactors, as a variety of nuclear fuel concepts and basic designs. After describing the types of nuclear fuels and the prospects for research and development for the future, the basic design and outline the current status and issues of research and development of six fuels of lightwater reactor fuels, MOX fuels, metal fuels, nitride fuels, high temperature gas reactor fuels, and molten salt fuels. After outlining the characteristics of each of the six fuel types and the current state of research and development, we will focus on research and development, especially irradiation tests, and have a comprehensive discussion between the presenters and attendees at the venue.