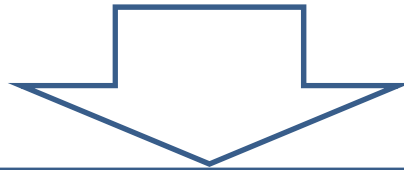


Takashi Ishikawa¹, Takashi Onishi¹, Takashi Hirose¹, Kosuke Tanaka¹, Kozo Katsuyuki¹
¹Japan Atomic Energy Agency, Oarai-Machi, Ibaraki-ken 311-1393, Japan

- ◆ The high temperature behavior of the nuclear power plant's fuels must be taken into consideration for normal operational conditions and severe accidents.
- ◆ The evaluations of **fast reactor fuel** has been particularly carried out on our research group.



< High temperature behavior >

- 1) Melting temperature of irradiated fuels
- 2) Radionuclide release behavior from the irradiated fuels

- ◆ Detailed descriptions of apparatus.
- ◆ The experimental results of fast reactor MOX fuel.
 - Burnup dependence of the melting temperature.
 - Radionuclide release behavior
(types of nuclides released, the release fraction and the release rate).