

Special Session Description

Session Title: **Accelerator-Driven System (ADS) Benchmarks at Kyoto University Critical Assembly (KUCA)**

Subject Area: 4. Subcritical System Analysis Methods

Organizer

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Description

The experimental benchmarks on ADS at KUCA are importantly containing theoretical issues for kinetic parameter estimation in subcritical state and attractively providing computational issues by the deterministic and stochastic approaches. This special session will cover theoretical and computational aspects of methodologies for ADS, as follows:

- Energy and spatial correction factors for kinetic parameters
- Deterministic and stochastic analysis methods
- On-line monitoring techniques of subcriticality
- Uncertainty of methodology for subcriticality
- Higher-harmonics analyses for kinetic parameters
- Development of reactor analysis codes

The session will involve mathematical modeling, deterministic and stochastic analysis methods, and experimental applications that relate to the ADS benchmarks at KUCA.

ADS benchmarks at KUCA URL:

http://www.rii.kyoto-u.ac.jp/PUB/report/10_ads.html