

Special Session Description

Session Title: **Mathematical Developments on Direct Application to Nuclear Data Evaluation and Processing**

Subject Area: 3. Nuclear Data Evaluation

Organizer

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Description

Nuclear data is the backbone of any nuclear system design and evaluation. Over last past 10 years there have been numerous developments aiming at improving nuclear data evaluation, processing, and application. The advent of developments to address issues in connection with the coupling of computer codes for multiphysics calculations has led to needs of nuclear data manipulation in order to alleviate the use of computer time and storage. From the point of view of data evaluation there are efforts going on to help improvement of data evaluation procedure regarding thermal scattering, resolved and unresolved resonance, and high energy evaluation. In addition the subject of uncertainty generation has triggered mathematical developments to improve the treatment of data covariance for practical application. This session is expected to attract papers from the nuclear data community as well as the reactor physics.