

# 673<sup>rd</sup> ASRC Seminar

Date: 13:30 ~ 15:00 Wednesday, April 12

Location: 302 Meeting Room, ASRC Bldg.

Speaker: Dr. Patrick Talou  
(Los Alamos National Laboratory)

Title: Theoretical Developments in Nuclear Fission  
Research at LANL

**Abstract:** A theoretical understanding and accurate quantitative modeling of the nuclear fission process remains key to our fundamental understanding of the nuclear many-body problem and to the development of many advanced nuclear technologies. In this talk, I will review several ongoing research efforts in the Theoretical Division, which often complement experimental efforts both in the Physics Division at LANL and elsewhere. Of particular interest are: (1) the development of a consistent approach to fission cross-sections and angular distribution of the fission fragments; (2) the prediction of fission fragment yields as a function of incident neutron energy; (3) the modeling of prompt fission neutron and gamma-ray observables, including distributions and correlations. I will review recent modeling and experimental results on these three topics.

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Katsuhisa Nishio (81-5454)  
Advanced Science Research Center