Friday,
May 10th
At 1:30 pm

Delivering a Nuclear Science capability at Lawrence Livermore National Laboratory

Abstract:

Predictive science is one of Lawrence Livermore National Laboratory's (LLNL) most important mission areas, as well as one of our strengths. We use predictive science to improve fundamental understanding of our applications, through the integration of focused experiments, theory research and development, numerical methods research, and high-fidelity simulations. The LLNL Nuclear Science efforts provide important nuclear data to help drive improvements in our predictive capability. As a result, we have developed and continually maintain a complete nuclear data pipeline, which integrates nuclear physics experiments and theory to produce new data libraries. These new data libraries are processed for use within particle transport codes. Important physics is added at each step in this process. In this presentation, we will walk through the pipeline, providing an overview of LLNL's capability in each area, and a focus on delivering data for the end-user.

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NNSA Speaker Series

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Teresa S. Bailey

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Deterministic Transport Project Lead

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Lawrence Livermore National Laboratory

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CYLOTRON INSTITUTE
Room 228

Refreshments will be served at 1:15 pm

TEXAS A&M UNIVERSITY