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Nuclear physics with accelerator-produced neutron beams

Tuesday, 4 September 2018 12:00 (30 minutes)

Neutron-induced nuclear reactions, a substantial part of the more generic notion of nuclear data, are important for a variety of research fields, going from stellar nucleosynthesis, basic nuclear physics, to nuclear technology to applications in dosimetry, medicine, and space science. Accelerator-based neutron sources play a major role in experimental studies for the determination of reaction cross sections spanning a wide energy range from sub-thermal to GeV energies. A number of present and upcoming neutron time-of-flight and mono-energetic facilities will be discussed and illustrated by examples of measurements for nuclear astrophysics and nuclear technology.

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