

WPEC Subgroup Proposal

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Title: Measurement and Evaluation Priorities for Production of Minor Actinide Nuclear Reaction Data Files

Objective

Identify required measurements and evaluations of minor actinide nuclear reaction data and assign priorities.

Background

Requirements for minor actinide nuclear data arise in various research and development activities, including accelerator driven systems, radioactive waste transmutation, criticality safety, burnup credit, safeguards and innovative reactor concepts with closed fuel cycles. The main task of the subgroup is to collect and co-ordinate the requirements from different activities, assess the reactions that need to be measured, together with the required accuracies, and assign priorities.

Formation of a WPEC subgroup was recommended by the International Nuclear Data Committee (INDC) that reviews the programme of the IAEA-NDS (4-7 May 2004).

Output

The main output of the subgroup is:

- List of reactions that require new measurements.
- Accuracy requirement for the new measurements.
- Priorities for measurements and evaluations.

Outcomes

The list produced by the subgroup will serve as the basis for the programme of the planned CRP activity of the IAEA on measurements and evaluations of minor actinide nuclear reaction data (scheduled to start in 2007).