




Resonance Region Total and Capture Uncertainty Templates

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Measurement uncertainty templates

- Putting the templates together was a good exercise in finding the minimum information needed to understand the uncertainties and correlations
 - The general metadata:
 - Reference (author, journal, etc.)
 - Facility, neutron source
 - Detector types, numbers
 - Sample level of enrichment, physical form
 - Monitor reaction, ratio measurement, etc.
 - Uncertainty analysis method
 - Corrections
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Transmission

- Transmission vs energy, uncertainties
 - Statistical uncertainties (counts and background)
 - Background (correlated) uncertainties, method
 - Target number density, impurities
 - Flux normalization value, method
 - Fluctuation correction (URR)
 - Resolution Function (RRR)
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Capture

- Yield vs energy, uncertainties
 - Statistical uncertainties (counts and background)
 - Background (correlated) uncertainties, method
 - Target number density, impurities
 - Flux normalization value, method (efficiency)
 - Fluctuation correction (URR)
 - Resolution Function (RRR)
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Resonance Region specific issues

- Issues that came up that are going to be problems in RR (difficult to compile):
 - Resolution Function
 - Fluctuation corrections
 - PHWT specifics
 - Others?

