Integration of XUNDL into ENSDF

ENSDF

Adopted Levels, Gammas	**Supporting data – decay, (n,γ), reactions**
• Q-values from Audi not updated • Level – E, J^{π}, $t_{1/2}$, μ, Q, BR • Gamma – E, RI, Mult+δ • Justification comments • Published *Nuclear Data Sheets* • ~12 year evaluation cycle	• Representative of experimental data • Datasets combined from many references • Not adopted for applications • No longer published in *Nuclear Data Sheets*?

XUNDL

Experimental data from the literature in ENSDF format

- Compiled from recent literature. Not evaluated and checked for correctness
- Maintained independently of ENSDF
- Generally very up to date

Integration of XUNDL into ENSDF

ENSDF

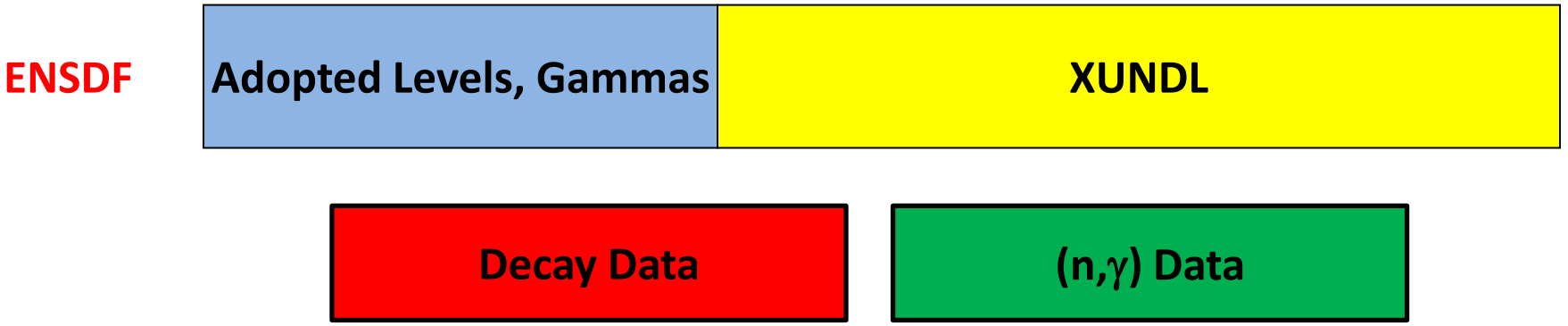
Adopted Levels, Gammas	Supporting data, (n,γ), reactions
• Q-values from Audi not updated • Level – E, J^{π}, $t_{1/2}$, μ, Q, BR • Gamma – E, RI, Mult+δ • Justification comments • Published *Nuclear Data Sheets* • ~12 year evaluation cycle	• Representative of experimental data • Datasets combined from many references • Not adopted for applications • No longer published in *Nuclear Data Sheets*?

XUNDL

Experimental data from the literature in ENSDF format

- Compiled from recent literature. Not evaluated and checked for correctness
- Maintained independently of ENSDF
- Generally very up to date

Integration of XUNDL into ENSDF



- Adoption of single reaction datasets for multiple resonances doesn't serve users well.
- Evaluators can update XUNDL for older datasets and edit it to add derived quantities.
- XREF points to reaction types with multiple references.
- Evaluators concentrate on Adopted Levels, Gamma
- Adopted Decay and (n,g) data evaluated independently.