

Purpose/Philosophy

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Purpose/Philosophy

- Present set of critically evaluated properties of nuclides based on best known experimental information to date
- Present best data available for each type of experiment
- Present best info for each nuclide
- Concise, consistent, and well-documented

Minimum Standards

- A-Chain completeness – All nuclides
- Nuclide Completeness – All data sets
- Data Set Completeness – ID to END record

Decay Data Sets: Parent record

Adopted sets: Q record

etc.

Uncertainty, units, documentation

Physical Properties

- Adopted Properties

General – Q, History, XREF, Comments

Levels-E, J_π, T_{1/2}, branching, static mom

Gammas-E, branching, mult, cc, BLW

- Decay Properties

- Nuclear Reaction Properties

Guidelines-extraction of data

- Quote authors' measured quantities
- Document any deviations
- Note authors' assumptions
- Check for missed references
- Check authors' quoted older values

Guidelines-presentation of data-1

- Order of Comments
- E= not needed for reaction
- Target JPI should be given
- Keyno: measured, etc.
- Do not combine different kind of data sets
- Specify source of data

Guidelines-presentation-2

- Gammas order by increasing E_g
- Significant digits
- Uncertainty limited to 25
- Multiplets
- Xsection, Analyzing-power, A2, A4 not given
- BEL up for levels, down for gammas
- Delayed gammas-give as IT decay

Guidelines-presentation-3

- Normalization condition should be given
- Parent record, all fields should be given
- Replace `/` by `:` for multiple ratios
- Unresolved discrepancies should be pointed out
- Uncertainty not error
- E(ec),E(b-) only when accurate, measured

Guidelines-Systematics

- $\text{Log}T_{1/2}(\alpha)$ vs $\text{Log} E(\alpha)$ is linear
- Takahashi's gross beta decay theory reliable to better than a factor of 3
- Alpha Decay HF
- Certain pairs of conf lead to isomeric transitions
- GS feeding from local systematics
- Mass syst from Audi

Guideline-Style

- APS style adopted
- Accepted abbreviations
- Key no. is plural. Space after `,'