Status of Top Level Hierarchy Requirements Document

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Changes since last WPEC meeting



That said, we're very close to wrapping it up (I think)

"about a week or two" of editing to do?

 Problem is, I've read it so so many times that I'm blind to things that need to be fixed. I could really use independent readers/proofreaders



Want to thank everyone who has helped with the editing so far

- Bret Beck
- Caleb Mattoon
- Morgan White
- Emmeric Dupont
- Robert Mills (FPY)
- Jessie Holmes (TSL)
- Ayman Hawari (TSL)



Remaining issues

- 1. Appendices
- 2. Covariance
- 3. Resonances
- 4. Faithfulness to GND and/or specifications
- 5. Things that are bothering you, but haven't communicated to group?



Issue 1: Appendices

There is some grumbling about the appendices, so lets go through them....

- · A. Graphical Notation
 - I think it's needed to explain the diagrams in the main text. Is it sufficient?
- B. List of <distribution> Requirements
 - It is obsolete and really more of a GND— ENDF equivalence table
 - Let's come back to this one in the context of a bigger GND—ENDF discussion
- · C. Variables

- Shouldn't it be merged with the Terminology appendix?
- D. Terminology
 - Keeps us on the same page for the 2-3 cases where there is ambiguity, but is it needed? Maybe a better question is, is it needed here?
- · E. Contributors
 - Absolutely needed! There are too many of us to list at the top!



Issue 2: Covariances

- GLSqr sum of covariances, can someone check my math/reasoning?
- Verbiage regarding covariance on higher dimensional objects
- Complaints that the section is too abstract. Is it resolve? If not, can I get help?



Issue 3: Resonances

- Charged particle elastic scattering, are we missing anything? I'm talking here about the resonance parameters, not the reconstructed stuff.
- Brune's transformation, do we need to do anything special to support it?



Issue 4: Faithfulness to GND

- We want to capture current state of GND in this document, but at what level?
 - Sync notation/diagrams with current GND (1.7)?
 - Add translation appendix?
 - "Do nothing"?
- Also, it would be useful to have a standalone document explaining the differences between GND-1.8 and ENDF-6; this would be basis of future migration documentation for users

More thoughts on proposed GND-1.7/ENDF document

- Tutorial vs. reference?
- MAT number equivalents
- MT, LR flag equivalents
- MF, LIP, LAW, etc. equivalents
- TAB1, TAB2, TAB3, LIST equivalents



Issue 4: Faithfulness to specifications

- To what level should we revise requirements as we redo specifications?
 - Need to make requirements agnostic to final specs.
 - To assess this, need independent editor(s)



Issue 5: Problems you have with requirements that I haven't addressed



Help!

Detailed editing/ proofreading:

- Particles Caleb?
- Covariance
- Resonances
- "Must", "shall" and "should" (RFC 2119)
- Naming: consistency, clarity wrt. specs & GND

Writing:

- Missing definitions
- Derived data
- styles (at least that's what they are called in GND) — Bret?
- Derived data linkage to source data & relation to styles — Bret?

