Generic Processes & Materials examples in geant-val

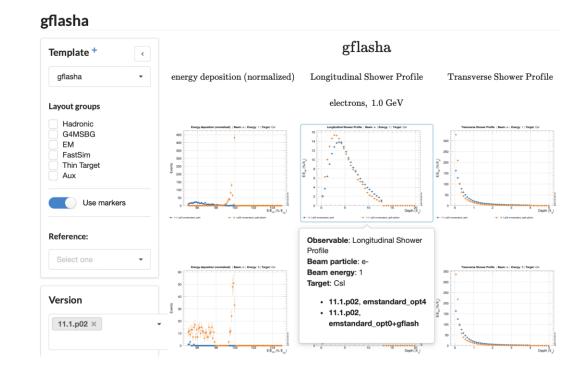25/09/2023 Parallel session Generic Processes & Materials

28th Geant4 Collaboration Meeting

Hokkaido University, Sapporo (Japan)

Processes & Materials examples

- Gflash
  - First preliminary histograms in geant-val
  - The results very promisive
  - Working on final configuration
- Biasing
  - Work in progress
  - Adding histograms to the examples
- ReverseMC
  - Discussion started

Status of ExGFlasha example

- Not usual use case: the results (fast monte carlo) has to be compared with full sumulation. Noy only for gflash but other GSM examples.
- The first results was published
  - Not a final configuration
  - The parameter calorimeter length in X_0 missing
  - The histograms limits and energy points must be corrected
  - Long jobs for hight energues need to be splitted
- The some extension of geant-val may be useful
  - The ability to display text/tables not only histograms
  - More selectors like material, energy, etc to choose what will be displayed
- Long publication cycle
- Missing of test site