

FarRichFastSim

1. Description of materials (aerogel, water, MCP PMT & electronics)

- *PacEnv/MaterialsList.data*

2. XML description of detector (geometry, materials, response)

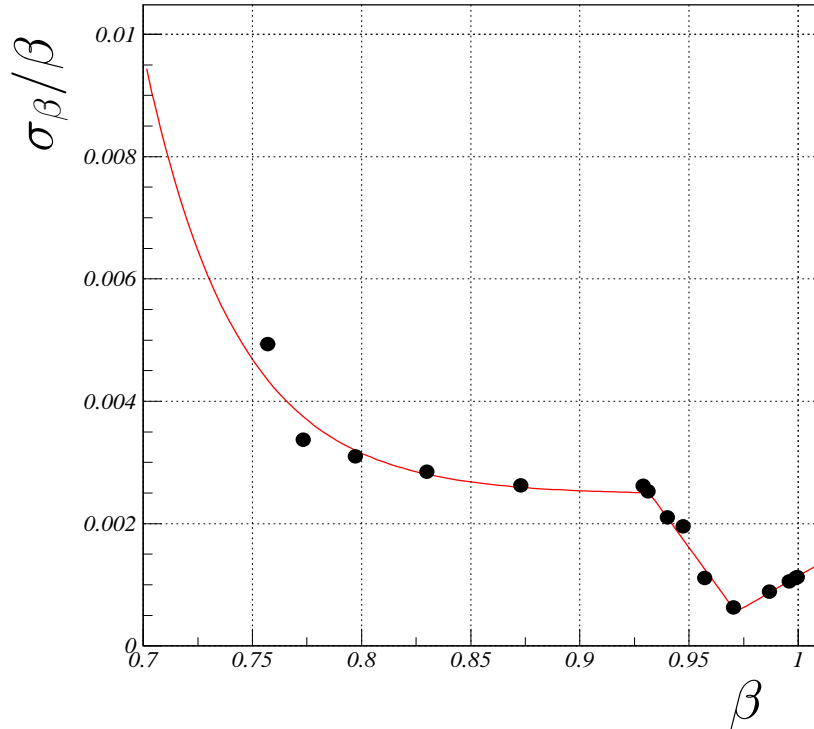
- *PacForwardPid/ForwardPid_aerogel.xml*

3. Response of detector

- *PacForwardPid/PacForwardPidResponse.** – hit
- *PacForwardPid/PacForwardPidReco.** – hit generation
- *PacForwardPid/PacForwardPidMeasurement.** – hit data interface

• Parameters of Hit:

- Hit position (x, y, z) for first entrance of particle in aerogel
- β and σ_β for particle



Code compiled, Hit generated

Use

- data from reconstructed track
- data from PacForwardPid hit
- detection efficiency

created selector *PacPid/PacPidAerogelTruthSelector.**

which generated probability for particles: e, μ, π, K, p

Calculations are based on the gamma function `TMath::Prob`

