

TruthVertexFinder

Studies on b-charge measurement

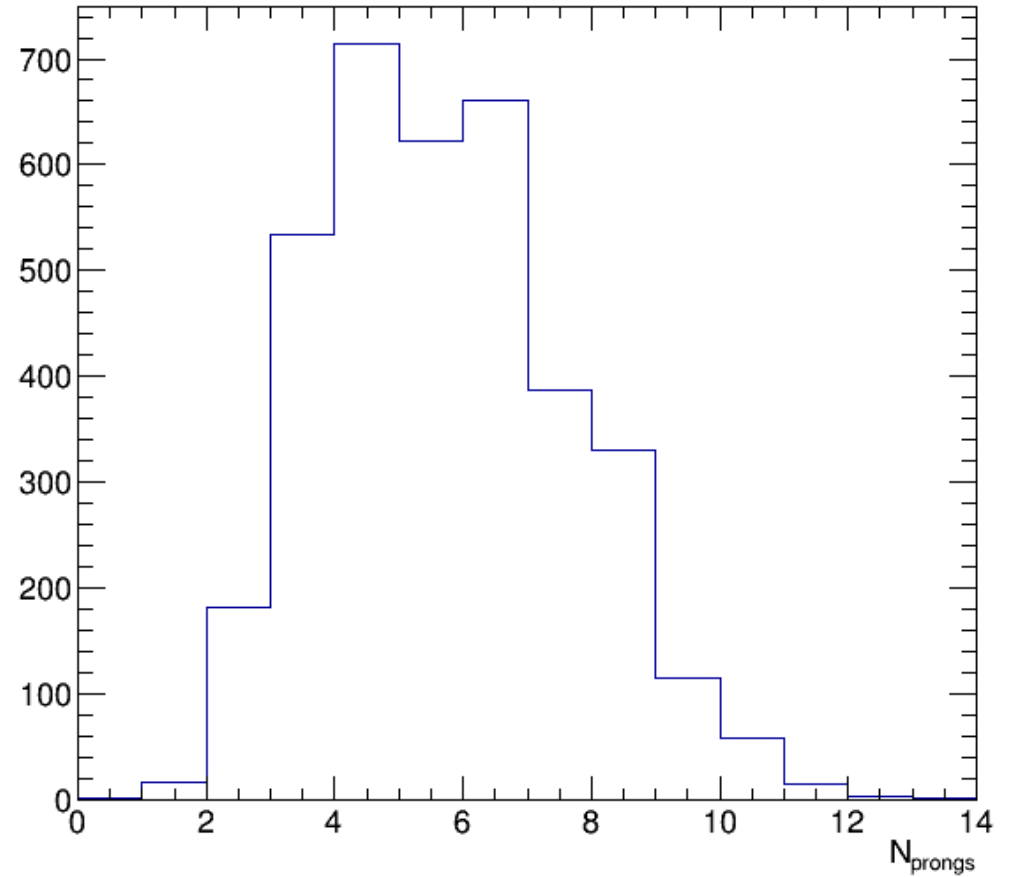
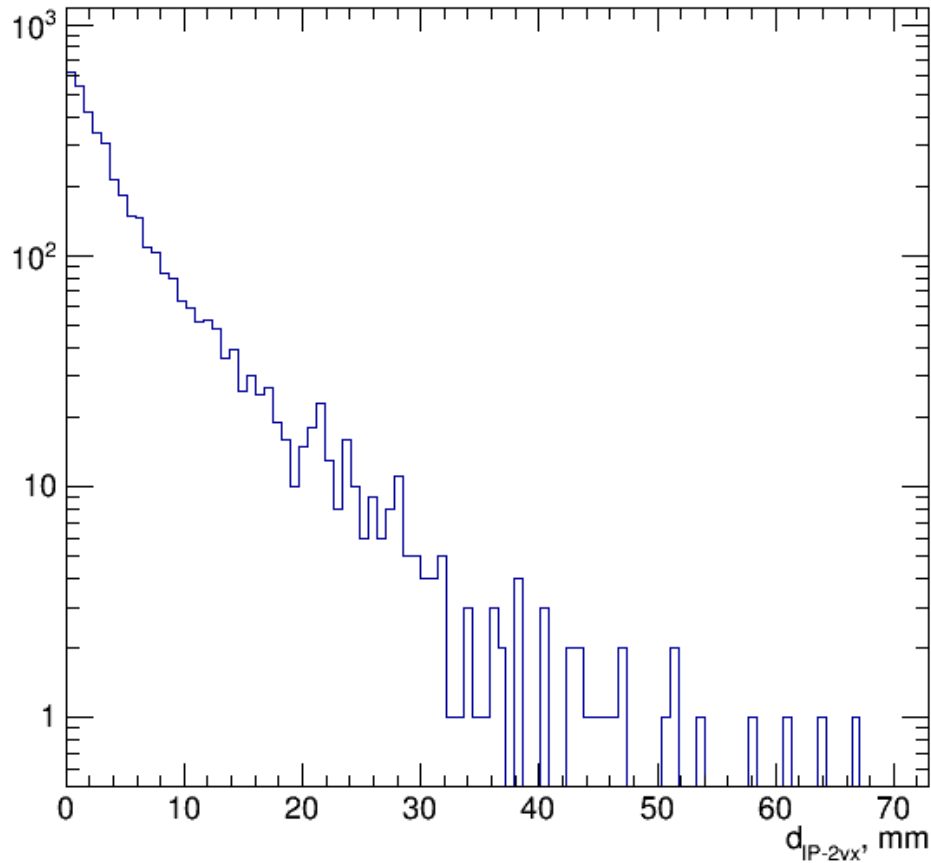
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TruthVertexFinder

- TruthVertexFinder is a new Marlin processor that can extract secondary vertices from event generator collection (MCParticle) by particle PDG type
- This program creates a collection of generated vertices that are tagged by a charge of initial heavy quark
- For each generated vertex it selects prongs – particles, that leave tracks in detector. These particles are associated with corresponding secondary vertex
- It can create ROOT and log output
- This code will be available soon as a Marlin processor with short documentation in a common repository
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Example output



- Distance from IP to B-meson decay vertex (left), prongs of initial B-meson (right)

Thank you!