Update on SciGlass simulation

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Fun4All vs DD4hep benchmark

» Throw 1 GeV electrons with an external particle gun (HepMC v2 or v3 file output)
» Feed the same events to Fun4All and ddsim for simulation
» Plot event-by-event correlations
Note: this was done before carbon fiber support was implemented in DD4hep

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Fun4All vs DD4hep benchmark
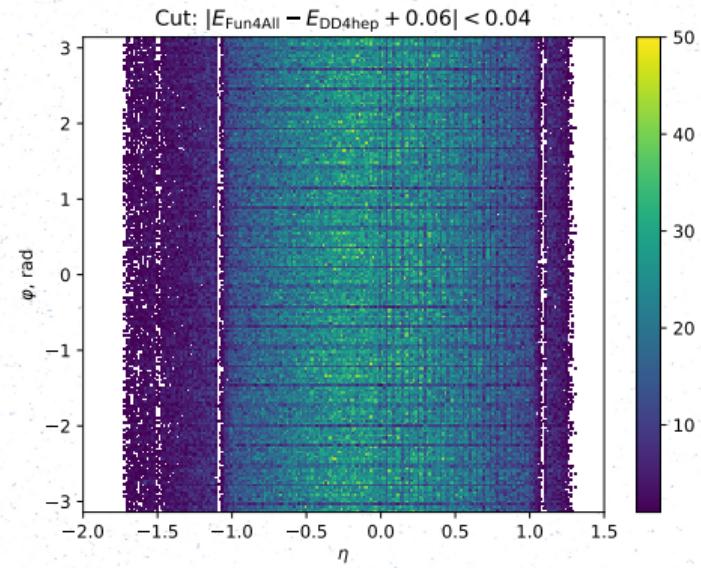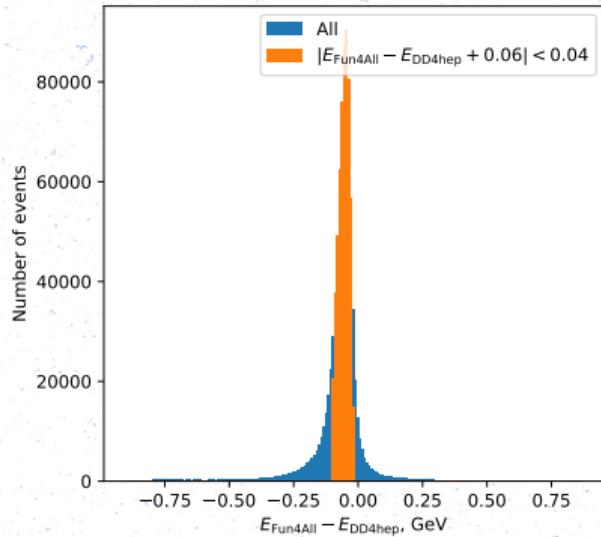
Fun4All vs DD4hep benchmark
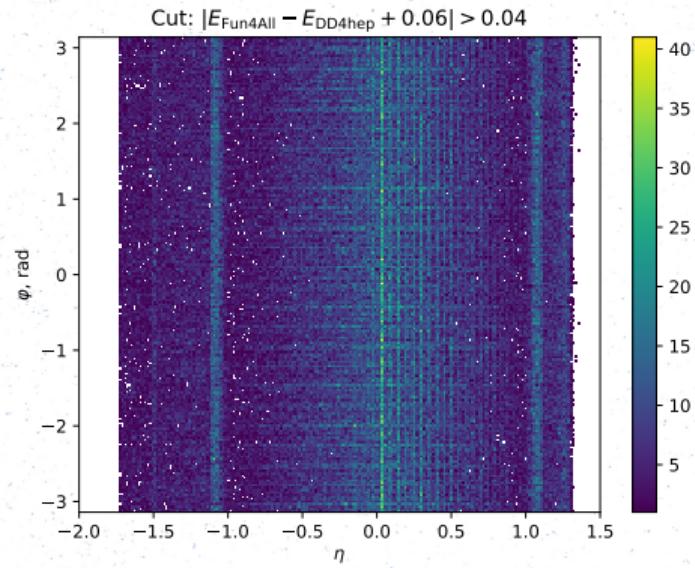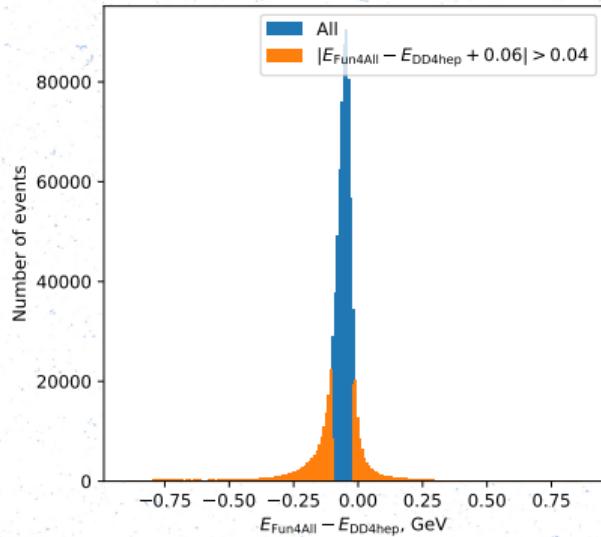
Fun4All vs DD4hep benchmark
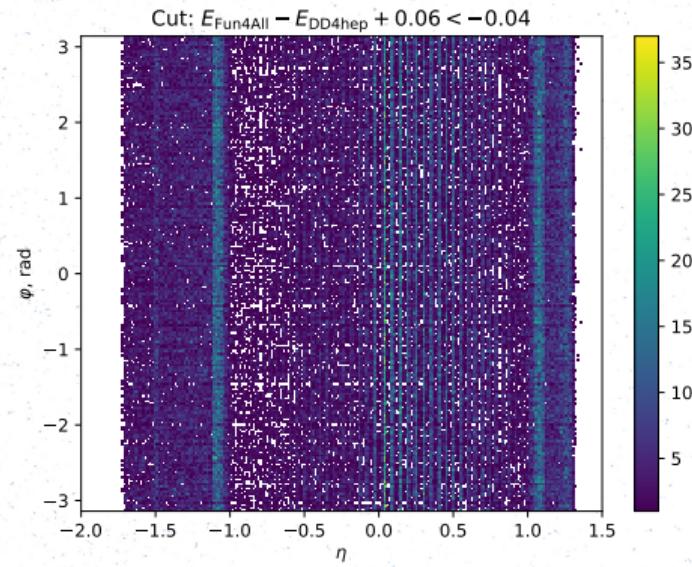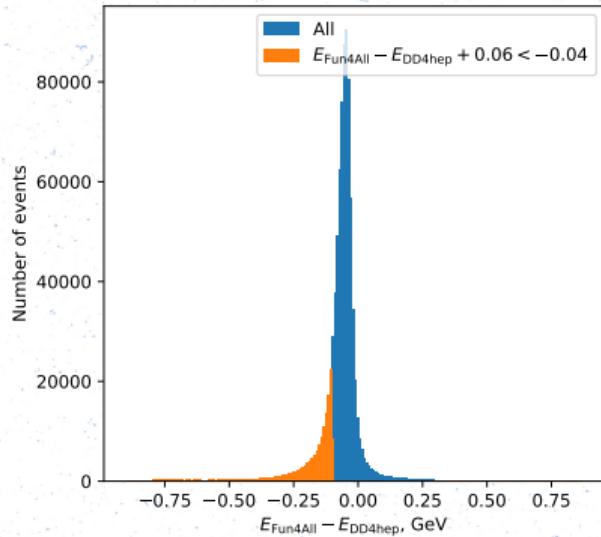
Fun4All vs DD4hep benchmark
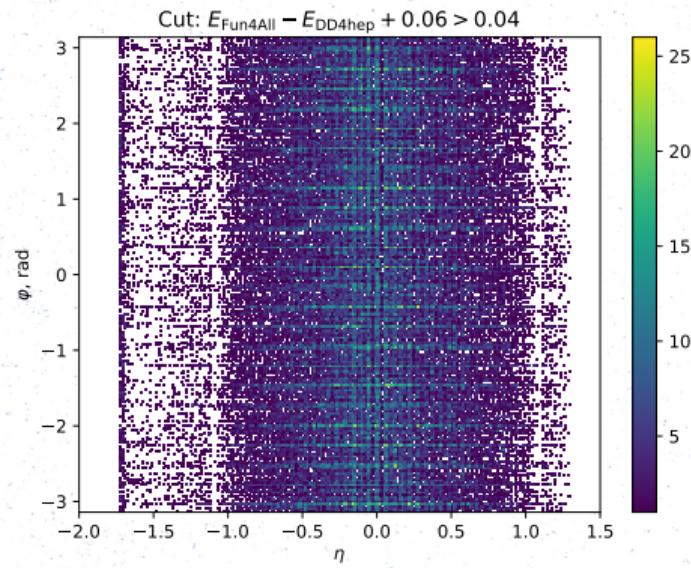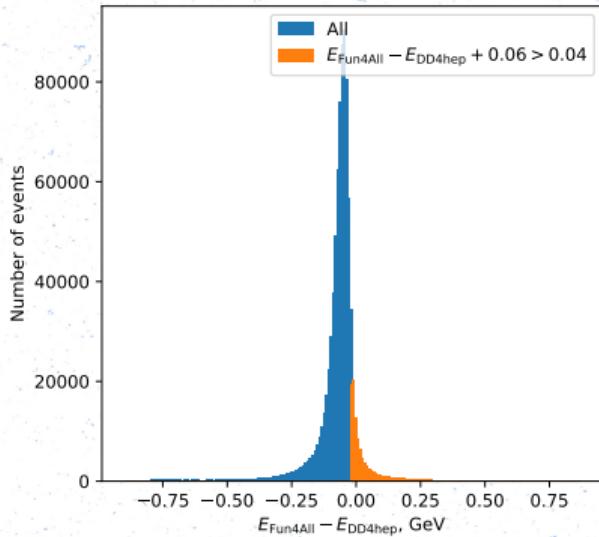
Latest ePIC DD4hep resolution performance: carbon fiber support

» Using latest ePIC geometry from git
(`abef0752939e953aedc59528126b9cf3fe8fcee7`)
including carbon support and aluminum wedge mock up

» Throw electrons with $p \in [0.15\text{ GeV}, 1.5\text{ GeV}]$ distributed uniformly within the 4π solid angle

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Latest ePIC DD4hep resolution performance: carbon fiber support