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## Progress in hadronic physics modeling in Geant4

*Thursday, May 29, 2008 2:00 PM (20 minutes)*

### Summary

Geant4 offers a set of models to simulate hadronic showers in calorimeters. Recent improvements to several models relevant to the modeling of hadronic showers will be discussed. These improvements include improved cross sections, a revision of the FTF model, the addition of quasi-elastic scattering to the QGS model, and improvements in the nuclear precompound and de-excitation models. The validation of physics models against thin target experiments has been extended especially around and below 10 GeV. Examples of new validation results will be shown.

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