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Overview and new developments in Geant4 electromagnetic physics

Monday, September 27, 2004 4:30 PM (20 minutes)

We will summarize the recent and current activities of the Geant4 working group responsible of the standard package of electromagnetic physics. The major recent activities include a design iteration in energy loss and multiple scattering domain providing “process versus models” approach, and development of the following physics models: multiple scattering, ultra relativistic muon physics, photo-absorption-ionisation model, ion ionisation, optical processes. An automatic acceptance suite of validation of physics is under development. Also we will comment on evolution of the concept of physics list.

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