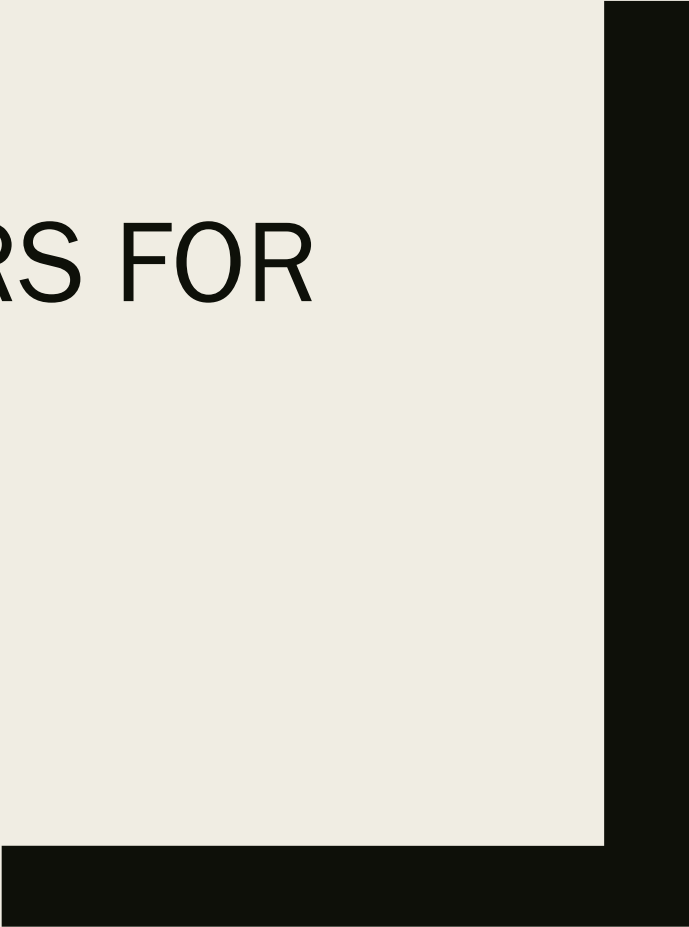




EM VALIDATION RESULTS FOR REF-09

V. Ivanchenko
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EM modifications for 10.2ref09 on top of 10.2ref08

- **utils:**

- *EM parameters modification is enabled for PreInit, Init and Idle states*

- **standard:**

- *G4UniversalFluctuations – restored 10.3beta*

- **lowenergy (L.Pandola)**

- *Added c++11 features to penelope models*

- **Physics_list:**

- *Added configuration of EM physics per region via UI commands*
- *G4EmModelActivator and EM builders – use coherent names for EM constructors*
- *Opt3,Livermore, Penelope – enable lateral displacement sampling for hadrons*
- *WVI – disable displacement beyond the boundary*

EM validation results

- Results for 10.2ref09 are stable and agree in general with 10.3beta
 - *Problems of ref-07 and ref-08 are not seen anymore*
- URL to validation results: <https://geant4-tools.web.cern.ch/geant4-tools/emtesting/>