

Low Energy Electromagnetic Physics

Recent developments and results

Maria Grazia Pia, INFN Genova
on behalf of the Geant4-LowE team

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Main activities

*See talks on
Statistical testing and Validation
+ related parallel session*

• Test & Analysis Project

- main focus of the group in the past months
- tools for precision testing, regression testing
- physics validation

• Development

- “Penelope” models re-engineered in Geant4 (*Luciano*)
- Precise models for angular distributions (*Andreia/Pedro's talk*)
- Atomic relaxation & PIXE (*Alfonso and Simona, in progress*)

Talk by Luciano

Talk by Andreia and Pedro

• Design iteration

- exploration of generic programming approach
- requires solid **testing process and tools**