## Nano5

## New architectural design for novel experimental domains



 R&D on simulation methods, technology and architectural design to extend Geant4 kernel capabilities for co-working transport schemes

## INFN Genova members

M.G. Pia (100%), P. Saracco (30%), M. Batic (100% post-doc fellowship)

## Activities in progress

- R&D on technologies in support of physics object mutability in transport: electromagnetic design prototype
- R&D on co-working condensed/discrete transport topics: electron ionisation
- R&D on epistemic uncertainties in physics models and related design methods
- First results documented in conferences and journal publications
  - Paper on epistemic uncertainties currently under review in IEEE Trans. Nucl. Sci.
  - 3 papers currently in preparation, to be submitted during 2010
  - CHEP 2010: 2 talks + 1 poster NANO5
  - Monte Carlo 2010: 9 talks NANO5
  - **IEEE NSS 2010**: 6 talks + 1 poster NANO5, + 1 talk on Geant4 scientometrics
- Work plan for 2011: along the lines of activity in progress
- Financial requests similar to previous years
- Workload on Section Services: normal support from Computing Service
- Acknowledgments to INFN Genova Computing Service in our publications Maria Grazia Pia, INFN Genova