



HSF Detector Simulation Working Group Meeting

<https://hepsoftwarefoundation.org/workinggroups/detsim.html>

Conveners:

Ben Morgan (ATLAS, Geant4, The University of Warwick)

Kevin Pedro (CMS, Fermilab)

Krzysztof Genser (Mu2e, Geant4, Fermilab)

28th of March 2022

- Today's talk:
 - MARS15 Code Overview
 - Speaker: Nikolai Mokhov (Fermi National Accelerator Laboratory) see selected bio information on the last slide
 - Note the link to the live notes posted on Indico:
 - <https://indico.cern.ch/event/1107097/>
 - Please "raise hand" in the zoom app (invoked in the reactions tab) to ask questions during and after the talk
- Next talk (Monday 11 Apr 2022)
 - Fast Calorimeter Simulation Challenge
 - Speaker: Claudius Krause (Rutgers University)
 - <https://indico.cern.ch/event/1140563/>
- Next event (3-6 May 2022)
 - HSF Detector Simulation on GPU Community Meeting
 - Co-organized with HSF Coordination & Geant4 R&D Task Force
 - <https://indico.cern.ch/event/1123314/>
- Future talks:
 - We expect a session on DD4hep towards the end of May
- Also see: <https://hepsoftwarefoundation.org/future-events.html>

- Ideas and input regarding future meetings very welcome, especially for cross-Working Group items
 - Feel free to contact the conveners to suggest a topic, volunteer a talk or provide feedback
- If you are not a member of the HSF Detector Simulation Google Group and would like to join, please go to:
<https://groups.google.com/g/hsf-simulation>
- The main HSF mailing list: <https://groups.google.com/g/hsf-forum>

- Today's speaker, Nikolai Mokhov
 - Joined Fermilab in 1992, currently holds a Distinguished Scientist position, is the MARS Group Leader in the Target Systems Department in the Accelerator Division
 - Received his Ph.D. in theoretical and mathematical physics in 1976 from Moscow Physical Engineering Institute
 - His thesis was titled "Study of Intranuclear Cascades Induced by 1-5000 GeV Hadrons."
 - Selected American Physics Society Fellow in 2002
 - "For critical contributions to the understanding of the interaction of high-energy particle beams with materials".
 - Was a spokesman of Fermilab Tevatron Run II crystal-collimation experiment
 - MARS MC author, developing its code since 1974