

Simulations / Data Management Overview

09:20 SCT Prototype Data Management

Presenter(s): HUMENSKY, Brian (*Columbia University / Nevis Laboratories*)
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

09:35 Hybrid-1 Analysis & Performance

Presenter(s): DECERPRIT, guillaume (*DESY-Zeuthen / Argonne National Laboratory*)
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

09:50 SCT Prototype + VERITAS Performance

Presenter(s): DECERPRIT, guillaume (*DESY-Zeuthen / Argonne National Laboratory*)
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

10:00 SCT Prototype Stand-Alone Performance

Presenter(s): DUMM, Jon (*UMN*)
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

10:10 Likelihood-Based Studies of Reconstruction

Presenter(s): WOOD, Matthew (*SLAC*)
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

10:50 Image Cleaning and Moment Analysis

Presenter(s): JOGLER, Tobias
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

11:00 Update on CARE and grOptics

Presenter(s): OTTE, Nepomuk
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

11:10 NSF SAVI Proposal

Presenter(s): FORTSON, Lucy (*University of Minnesota*)
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

11:25 PTDR Input & Discussion

Presenter(s): HUMENSKY, Brian (*Columbia University / Nevis Laboratories*)
Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

11:45 DISCUSSION: Open Tasks and Plans

Room: Kavli Auditorium
Location: Kavli Building (SLAC Building 51)

Data Management for the SCT Prototype

B. Humensky
2/24/2012
CTA-SCT Mtg - SLAC

Outline

- Data Management for the SCT Prototype
 - Looking beyond the Prototype
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Observational Data

- To-do list:
 - Work out data formats for SC events
 - Raw data – build on VERITAS Bank Format? CTA format(s)?
 - High-level data - Build on existing ideas for CTA format (FITS)?
 - Work out data-sharing agreement with VERITAS

Observational Data			
SC Telescope stand-alone Events	Binary file format with reader	RAID Disk (SLAC) ~10 TB/year	Available to general scientific community
Joint VERITAS-SC telescope events	Binary file format with reader	RAID Disk (SLAC) ~10 TB/year	VERITAS data-sharing agreement
Calibration data, Weather data	Binary database format with reader	RAID Disk 100 GB/year	
Reconstructed Events (direction, core location, energy, image shapes)	HDF5 format with reader;	RAID Disk (SLAC) ~10 GB/year	VERITAS data-sharing agreement

Data Pipeline

- Need to define still the data flow from the camera backplane to an archive...
 - Event harvester
 - Quicklook / online monitoring tools
 - Archiving tools
 - ... As well as the eventual simulations and analysis pipeline.
 - Interested parties? Should begin discussions later this spring.
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Beyond the Prototype

- How can we (the U.S. & SCT communities) get involved in the data-management related WPs?
 - Need to have a voice in defining data products and flow, ensure that SCT is well supported.
 - Lucy Fortson → Talk later this morning.
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