Goal of the Workshop

“SLAC in the LHC Era – Ambitions from the SLUO Community”

“… SLUO is convening a Workshop to estimate how SLAC National Accelerator Laboratory, with significant user support infrastructure and historical know-how, can facilitate the physics ambitions of its user community at the LHC. The Workshop is expected to trigger a renewed vision of the SLAC-LHC user community, including an increased role of the Lab.

The Executive Summary on “Planning for the SLAC ATLAS Program”, the so-called SLAC ATLAS White Paper, provides a detailed plan for the further development of the SLAC ATLAS program as a key element of SLAC’s future particle physics effort. A central aspect of this plan is that SLAC will collaborate with universities and other laboratories, both those in the West Coast region and those with intellectual and historical ties to its program....
Goal of the Workshop

“SLAC in the LHC Era – Ambitions from the SLUO Community”

...The aim of the SLUO Workshop is to evaluate and understand the expectations of the SLAC user community at large, covering a broad spectrum, including local US universities, non-US institutions, other large international laboratories in search of reliable and strong partnerships. In return, the Workshop will be an opportunity to assess the resources that SLAC can bring into projects that will advance the LHC physics and accelerator programs. It also will help to find the balance between the intensity of ATLAS/LHC activities on site and the infrastructure needed to support users.

The meeting will include presentations and discussion on current and future SLAC projects connected to all facets of the LHC adventure..”
Thursday July 16

8:00 – 9:00 AM
Introduction – 60’ – Chair Gérard Bonneaud (LPNHE Paris)
Organization of the Workshop – 5’ – Gérard Bonneaud (SLUO Chair)
Welcome – 5’ – Persis Drell (SLAC)
The US ATLAS program – 25’ – Mike Tuts (Columbia) & Howard Gordon (BNL)
The ATLAS Collaboration – 25’ – Andy Lankford (UCI)

9:00 – 10:30 AM
Near-Term ATLAS Physics Analysis – 90’ – Chairs Anna Goussiou (UW) & Ariel Schwartzman (SLAC)
Introduction – 15’ – Anna Goussiou (UW) & Ariel Schwartzman (SLAC)
Standard Model physics with early data – 15’ – Jason Nielsen (UCSC)
Top physics – 15’ – Andrei Gaponenko (LBNL)
Jets/JES/MET – 15’ – Ariel Schwartzman (SLAC)
Taus and physics with taus – 15’ – Anna Goussiou (UW) (+ Dugan O’Neil (SFU) & Eric Torrence (Oregon U))
Long-lived-neutral particles in ATLAS – 15’ – Henry Lubatti (UW)

10:30 – 11:00 AM Coffee Break

On Friday morning!
11:00 – 11:30 AM
… Near-Term ATLAS Physics Analysis – 30’ – Chairs Anna Goussiou (UW) & Ariel Schwartzman (SLAC)

TRIUMF and the ATLAS physics effort in Canada – 15’ – Isabel Trigger (TRIUMF)

Collaboration with Latin America – 15’ – Ricardo Piegia (Universidad de Buenos Aires, Argentina)

11:30 AM – 12:10 PM
LHC theory – 40’ – Chair Michael Peskin (SLAC)

Introduction – 10’ – Michael Peskin (SLAC)
Perspective of a phenomenological theorist – 10’ – Tim Tait (UCI)
Perspective of a theoretical theorist – 10’ – Michael Dine (UCSC)
The BlackHat Collaboration – 10’ – Zvi Bern (UCLA)

12:10 – 1:00 PM
Commissioning and Operations – 50’ – Chair Emlyn Hughes (Columbia U.)

LHC luminosity monitors at ATLAS and CMS – 20’ – Alex Ratti (LBNL)
Commissioning with cosmics – 20’ – Lauren Tompkins (LBNL)
Analysis model, resources and commissioning – 10’ – Jim Cochran (Iowa St. U.)

1:00 – 2:00 PM Lunch Break
2:00 – 4:00 PM
Simulation Tools and Projects at the LHC – 120’ – Chairs Bill Lockman (UCSC) & Dennis Wright (SLAC)

Introduction – 25’ – Bill Lockman (UCSC) & Dennis Wright (SLAC)

A sampling of ATLAS simulation efforts
1. Simulation tools – 25’ – Norman Graf (SLAC)
2. Cavern background – 25’ – David Brown (U. of Louisville)
3. Background overlay – 25’ – Bill Lockman (UCSC)

Discussion with Users – 20’
1. Opportunities for getting involved
2. Getting user input

4:00 – 4:30 PM Coffee Break

4:30 – 6:30 PM
Super-LHC & Accelerator R&D - SLAC's Role in LARP – 120’ – Chairs John Corlett (LBNL), Tom Markiewicz (SLAC) & Uli Wienands (SLAC)

Introduction – 10’ – Uli Wienands (SLAC)
LHC status & upgrades – 25’ – Verena Kain (CERN)
Accelerator Re&D at SLAC – 25’ – Tor Raubenheimer (SLAC)
LHC upgrades and LARP – 25’ – Alex Ratti (LBNL)
Collimator upgrades for LHC – 25’ – Jeff Smith (SLAC)
Discussion – 10’

6:30 – 7:00 PM
Physics at the Terascale: the DESY Experience – 30’ – Wolfgang Ehrenfeld (DESY)

No dinner or reception…we are sorry! SLUO is a poor organization! but those of us with cars can take our colleagues to local restaurants to continue the discussion.
Friday July 17

8:00 – 10:30 AM
LHC Upgrade & Detector R&D – 150’ – Chairs Abe Seiden (UCSC) & Su Dong (SLAC)
  Introduction to upgrade program – 10’ – A. Seiden (UCSC))
  Status of new layouts#1 – 20’ – Ch. Young (SLAC)
  Status of new layouts#2 – 20’ – R. Partridge (SLAC)
  IBL and pixel upgrades – 35’ – M. Sciveres (LBNL)
  Strip upgrades and trigger – 35’ – C. Haber (LBNL)
  ROD and data challenges – 25’ – Rainer Bartoldus (SLAC)
  Discussion – 5’

10:30 – 11:00 AM Coffee Break

11:00 AM – 12:30 PM
LHC computing – 90’ – Chairs Tom Glanzman (SLAC), Richard Mount (SLAC) & Gordon Watts (UW)
  Introduction – 5’ – Richard Mount (SLAC)
  Summary of physics analysis perspectives and detector performance interests of the SLUO community – 30’ – Peter Loch (Arizona U.)
  University user perspectives of the ideal computing environment and SLAC’s role – 30’ – Bill Lockman (UCSC)
  SLAC’s goals and its role in LHC computing – 20’ – Richard Mount (SLAC)
  Discussion – 5’

12:30 – 12:45 PM
Closing Remarks – David MacFarlane (SLAC)

David apologizes…BABAR IFC in Germany but will be with us on Friday

We should find ≈ 15’ for Henry!
Long-lived-neutral particles in ATLAS – 15’ – Henry Lubatti (UW)
Thanks…

➢ To the Conveners of the Sessions *(please don’t forget to provide me ASAP with a short note summarizing your session)*

➢ To the Speakers

➢ To the Participants

➢ And to Jill Meyers, Donna Hernandez, Ray Lo & Jimmy Pham

Let’s have a good and fruitful Workshop!