(I)LC Calorimeter School

Yuanning Gao, Tsinghua University

Roman Pöschl, LAL Orsay

2nd Preparatorial Meeting

2/4/2009

- Idea of School
- Organisational Issues

Ideas of School

- Help to raise/foster the chinese engagment in the Linear Collider Project
  - Small but existing community on ILC

    LTPC Collab., Calice Collaboration

- Small brick useful to convince chinese authorities to invest in (I)LC
  - Showing that China is "welcome" in the ILC project

- Raise interest in broader Chinese HEP Community for the LC
  - Institutes engaged so far restricted to Beijing
    -> Invite students from other non-Beijing Universitities

- Train students in Detector physics in general and calorimetry in particular
  - Form broad basis for (I)LC Studies in China
  - Facilitate international exchange
  - Easier access to international collaborations/conferences

- Successor of a similiar school on TPC Physics in 2008
  - Organized by Y. Gao, P. Colas, ...

Organisational Issues

- ## Date and Venue

  22/4/09 – 26/4/09 at the CCAST in Beijing/China

  www.ccast.ac.cn

- ## Webpage

  http://www.hep.tsinghua.edu.cn/CalSchool2009/

- ## Audience

  - Students at master level ±1 year
  - ~40 Students in total (40 from China, 1 from India)

- ## Food and Lodging for Speakers and Chinese Students
  will be provided by CCAST

  - Speakers will have to pay for travel
  - Non-Chinese Students will have to pay for travel and Lodging (~50$/night)

- ## Open Issues (Visa et al.) ?

Lectures - Summary and Proposals

Introduction to Calorimetry: R. Poeschl (LAL Orsay), J. Yu (UTA)

Very general

Forward referencing to lectures where possible

Introduction to ILC and ILC activities in China: Y. Gao Tsinghua University

SiW Ecal: Roman Poeschl

ScintEcal: Tohru Takeshita (Shinshu University)

ScintHcal: Frank Simon (MPPU Munich)

Need some coordination. MaybeTohru more on SiPM Technique and Frank on reconstruction

Software and Algorithms: Mark Thompson (University if Cambridge)

Clusterisation, what do we gain from highly granular calorimeters?

maybe existing software frameworks, Grid????

Digital Hcal: I. Laktineh (IPN Lyon)

MAPS: P. Dauncey (Imperial College London)

Calorimeter Electronics and DAQ: C. De la Taille (LAL Orsay)

Calorimetry at CLIC: Lucia (Lucie) Linssen (CERN)

Contains introduction to CLIC

Lectures – Organisational Issues

- Time reserved for lecture: 3x45 Min

  Exceptions: Introduction to Calorimetry 6x45 Min.

  Calorimetry @ CLIC 4x45 Min. As the school is in general a bit ILC

  CALICE

  Introduction to ILC 1x45 Min.

- Discussion with students 45 Min. After a block of three lessons

  Expect that students do have zero experience in detector physics and are shy to ask
  Lecturers are asked to prepare the discussion with the students
  Embed small questions into the lecture which are easy to answer in order to
  stimulate discussion
  Questions can/should be posed during lectures, discussion highly welcome

- Suggestions from Lecturers?