Linear Collider Software Workshop 2010

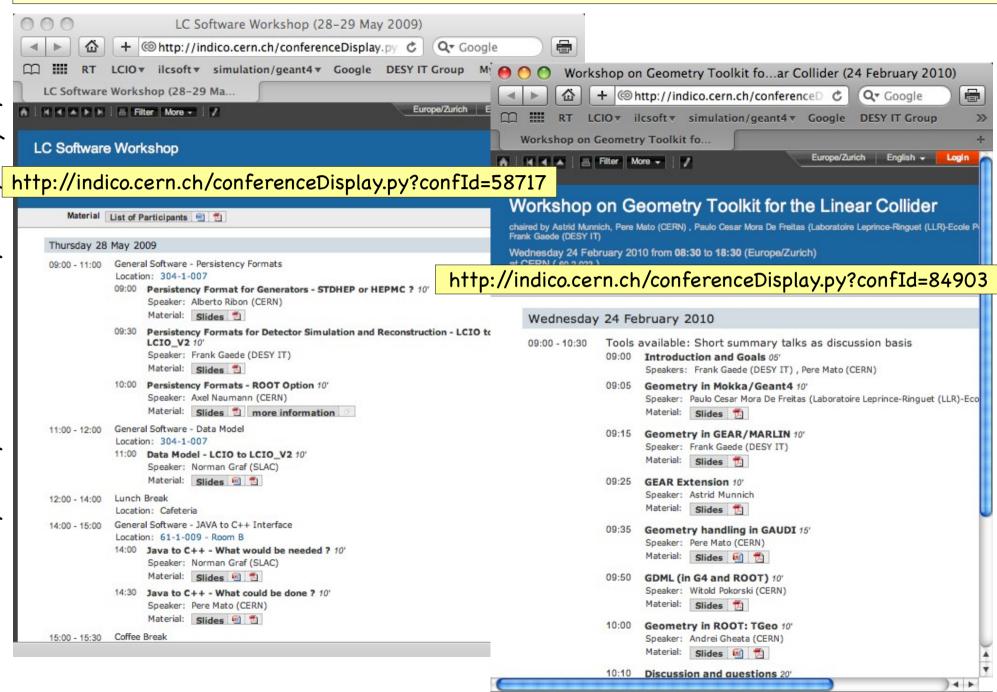
- Introduction -

Frank Gaede DESY July 4, 2010

Introduction

- With
- successful validation of SID and ILD Letters of Intend (LOI)
- CLIC detector group now preparing a CDR
- we have three groups working on detector R&D for a Linear Collider
 - currently using two software frameworks (Java and C++) with some commonly used packages (LCIO, PandoraPFA, LCFI)
- given tight funding and manpower situation we need to collaborate as much as possible
 - already started with
 - Linear Collider Software Meeting, CERN May 28-29, 2009
 - Workshop on Geometry Toolkit for the Linear Collider, CERN Feb 24, 2010
 - many private (phone) meetings

pointers to prev. meetings



Goal for this meeting

from summary talk LC-SW-WS CERN 2009:

Preliminary Prioritization

- high:
 - → evaluate ROOT I/O option for LCIO
 - common PFA development
 - LCIOv2 data model
- •medium high:
- → common geometry system
- · medium:
 - HepMC
- ⁴low:

- follow up on work items identified in previous meetings:
 - status of current implementation
 - near and mid-term plans
- identify new topics?

today's agenda

14:00	Introduction (10')	Frank Gaede (DESY)
14:10	Improvements to GEAR (30") Implementation based on ROOT TGeo	Astrid Muennich (CERN)
14:40	New Gear implementation in Mokka (30)	Paulo Mora de Freitas (LLR)
15:10	coffee break (30")	
15:40	New PandoraPFA (30') New PandoraPFA in Marlin (and org.lcsim). Application to ILC and CLIC. ParticleID.	
16:10	Grid production systems (40') ILC-DIRAC and GridProd.	Stephane Poss (CERN), Jan Engels (DESY)
16:50	AIDA WP2 (20") Frank Gaede (<i>DESY</i>), Steve Aplin (<i>DESY</i>) Discussion of plans for development of new Geometry and Tracking Tools.	
17:10	Towards LCIOv2 (20') Event data model, compatibility with ROOT and new	Frank Gaede (<i>DESY</i>) / features

- · allocated times are indicative
- should have short talks on status and plans
- · and sufficient time for discussions
 - let's have a fruitful meeting...