



Laboratoire d'Anney-le-Vieux
de Physique des Particules

Physics and detector agenda

Yannis Karyotakis

CLIC 08



Physics and detectors @ CLIC

- Physics potential @ 3 TeV
 - Physics @ 1TeV as a point of contact with ILC
- Explore CLIC specific channels
 - Higgs self-coupling
 - KK resonances
 - Excited leptons
 - Physics beyond the SM

Physics and detectors @ CLIC (2)

- Develop a detector concept optimized at high energy, 3TeV
 - Extrapolate from existing ILC concepts
 - SiD as starting detector
 - Calorimetry is again the driving issue
 - ECAL granularity
 - HCAL radial size
 - Particle flow @ high energies

Wednesday

Physics & Detectors Wkg - 40-S2-D01 (08:30-18:00)

- Conveners: Karyotakis, Jean; De Roeck, Albert

| time | [id] title | presenter |
|-------|---|-------------------|
| 09:00 | [258] Update on stau production (00h20') | CAKIR, Orhan |
| 09:20 | [259] Search for excited leptons (00h20') | OZANSOY, Aysuhan |
| 09:40 | [260] Bilepton searches (00h20') | TURK CAKIR, Ilkay |
| 10:00 | [261] Higgs self coupling (00h20') | GAY, Pascal |
| 10:20 | [336] Spin-1 resonances from a 4-site Higgsless model (00h20') | S. DE CURTIS |
| 10:40 | break (00h30') | |
| 11:10 | [264] CLIC signals in SiD (00h20') | BATTAGLIA, Marco |
| 11:30 | [265] CLIC signals studies (00h10') | OZANSOY, Aysuhan |
| 11:40 | [266] CLIC00 detector concept (00h30') | GREFE, Christian |
| 12:10 | [267] Linear Collider Analysis and Simulation Software (00h30') | GRAF, Norman |
| 12:40 | Lunch break (01h20') | |
| 14:00 | [268] Particle Flow (00h25') | M. THOMSON |
| 14:25 | [269] Calorimetry/HCAL (00h25') | F. SEFKOW |
| 14:50 | [270] DHCAL (00h20') | J. BLAHA |
| 15:10 | coffee break (00h30') | |
| 15:40 | [271] SiW ECAL R in CALICE (00h25') | WATSON, Nige |
| 16:05 | [272] The 4th Concept Detector for a Linear Collider (00h25') | C. GATTO |
| 16:30 | [273] Dual readout fiber calorimeter (00h25') | P. LECOQ |

Thursday 16 October 2008

Common Session (Beam Delivery System & Machine Detector Interface) (Physics & Detectors) - 40-S2-D01 (08:30-14:00)

- Conveners: Seryi, Andrei; Tomas, Rogelio; karyotakis, jean; De Roeck, Albert

| time | [id] title | presenter |
|-------|--|-------------------------|
| 08:30 | [282] Reports from the MDI WG (00h20') | Dr. TSESMELIS, Emmanuel |
| 08:50 | [285] Mask studies for CLIC -- Lucie Linsen (00h20') | |
| 09:10 | [283] Near IR FF design including FD and longer L* issues (00h20') | SERYI, Andrei |
| 09:30 | [288] Discussion (00h20') | |
| 09:50 | [286] 500 GeV background/Mask studies from ILC (00h20') | VOGEL, Adrian |
| 10:10 | [287] New background and luminosities at CLIC (00h20') | SCHULTE, Daniel |
| 10:30 | Coffee break (00h20') | |
| 10:50 | [284] Post-collision line -- Konrad Elsner (00h20') | |
| 11:10 | [289] Discussion (00h20') | |

Thursday afternoon

Physics & Detectors Wkg - 40-S2-D01 (14:00-18:00)

- Conveners: Karyotakis, Jean; De Roeck, Albert

| time | [id] title | presenter |
|-------|---|------------------|
| 14:00 | [274] Prospect to reach 5T, from experience gained from the large 4-T CMS coil (00h25') | A. HERVE |
| 14:25 | [275] Review of technologies for pixel detectors (00h30') | M. STANITZKI |
| 14:55 | [276] Silicon tracking for CLIC experiments (00h30') | A SAVOY NAVARRO |
| 15:25 | coffee break (00h30') | |
| 15:55 | [277] TPC detectors (00h25') | R. SETTLES |
| 16:20 | [278] Timing in tracking (00h20') | P. JARRON |
| 16:40 | [279] RPC/Time stamping (00h20') | D. HATZIFOTIADOU |