



Intro to Instrumentation Sessions



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CLIC Worksop – Instrumentation

CERN

17th October 2007

- Agenda
- Table of specifications
- ELAN notes

17/10/07

13:40->19:00 **Instrumentation Wkg** (Convener: Grahame Blair (*Royal Holloway, Univ. of London*), Thibaut Lefevre (*CERN*)) (Location: [354-1-001](#))

- 13:40 Overview of the CLIC Instrumentation (10') Grahame Blair (*Royal Holloway, Univ. of London*)
- 13:50 Requirements on the CLIC Drive Beam Instrumentation (20') Erik Adli (*European Organization for Nuclear Research (CERN)*)
- 14:10 Requirements on the Beam Delivery system Instrumentation (20') Rogelio Tomas (*CERN*)
- 14:30 From CTF3 to CLIC (20') Thibaut Lefevre (*CERN*)
- 14:50 Development of BPM electronics at LAPP (30') Louis Bellier (*LAPP*)
- 15:20 BPM Development at CEA/Saclay (10') Wilfrid Farabolini (*CEA DAPNIA*)
- 15:30 Coffee Break
- 15:50 EuroTeV High Precision BPM (20') Lars Soby (*CERN*)
- 16:10 EuroTeV High Bandwidth Wall Current Monitor (20') Alessandro D'Elia (*CERN*)
- 16:30 The effect of pair backgrounds on the TP stripline BPM (20') Anthony Hartin
- 16:50 Beam halo monitoring (20') Thibaut Lefevre (*CERN*)
- 17:10 High precision phase monitoring (20') Alexandra Andersson
- 17:30 CLIC luminosity monitors (10') Thibaut Lefevre (*CERN*)
- 17:40 Discussion (1h00')

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09:00->12:20 **Instrumentation Wkg** (Convener: Grahame Blair (*Royal Holloway, Univ. of London*), Thibaut Lefevre (*CERN*)) (Location: [354-1-001](#))

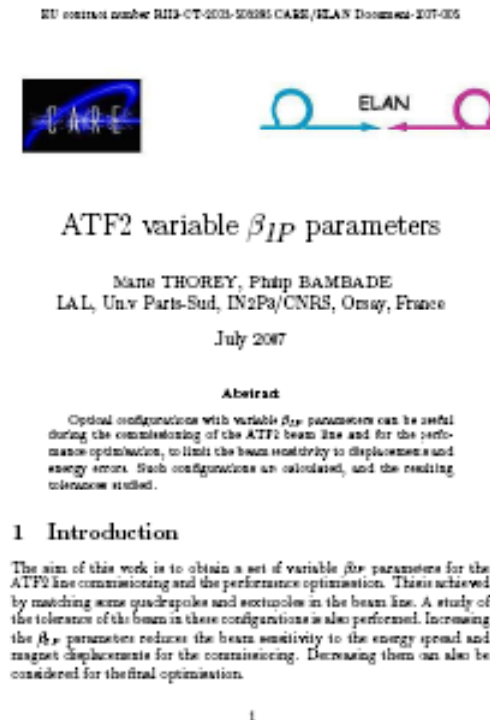
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| 09:00 | Non interceptive single shot bunch length measurement (30') | Anne Dabrowski (<i>Northwestern University</i>) |
| 09:30 | Beam instrumentation development at Uppsala University (30') | Arnaud Ferrari (<i>University of Uppsala</i>) |
| 10:00 | Coherent Diffraction Radiation and Applications at CLIC (30') | Pavel Karataev (<i>RHUL</i>) |
| 10:30 | Nano BPM studies and Possibilities for CLIC (20') | Stewart Boogert (<i>RHUL</i>) |
| 10:50 | Coffee break | |
| 11:10 | Laser-Wire studies at PETRAIII and ATF2 (20') | Grahame Blair (<i>RHUL</i>) |
| 11:30 | Beam loss monitoring at CTF3 (10') | Thibaut Lefevre (<i>CERN</i>) |
| 11:40 | Machine Protection system: Lessons learnt from LHC (20') | Eva Barbara Holzer (<i>CERN</i>) |

Beam Parameters	Main Beam Requirement	Main Beam Monitor	Drive Beam Requirement	Drive Beam Monitor
Intensity Σ				
Position x,y				
Energy spread $\Delta E/E$				
Bunch length σ_z				
Emittance $\gamma\epsilon$				
Beam size σ				
Beam loss				
Luminosity L				
Phase stability				

ELAN Document

- Please produce a paragraph of introduction to your talk and then we can include it, together with the slides, as an “ELAN document”

Example:



Template can be found at:

http://esgard.lal.in2p3.fr/Project/Activities/Current/Networking/N2/ELAN/Documents/care_elan_document.doc