

ILC-CLIC Beam Dynamics WG

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Walker

Pre-Alignment

- An important topic for both projects
- Tolerances vary significantly
 - $O(100\mu\text{m})$ for ILC
 - $O(10\mu\text{m})$ for CLIC
- CLIC method may be of interest for ILC
- But simplified model useful for both
- Planned actions
 - Kiyoshi Kubo will present his model during the CLIC workshop (webex)
 - We will discuss the CLIC alignment method including the modelling for the simulations
 - This could also be presented at the ILC workshop

System Design

- Currently a functional design of the CLIC RTML is being made
- Would like to profit from ILC expertise
- Action
 - Presentation of ILC RTML rational and performance studies at CLIC workshop
 - Presentation of CLIC design considerations at CLIC workshop
 - Presentation of conclusions from ILC RTML system for CLIC at ILC workshop

Code Benchmarking

- CLIC main linac is ideal for benchmarking
 - Larger wakefield effects than in ILC
 - Large energy spread
 - Gives large leverage for comparison of imperfection modelling
- Actions
 - Kirti at FNAL will try to simulate CLIC linac
 - Maybe Kiyoshi will simulate CLIC linac with SLEPT
 - Maybe Andrea will use LUCRETIA
- CLIC would like ILC contribution to drive beam studies

Meetings

- Common webex meetings started
 - ILC beam dynamics meetings
 - CLIC meetings
 - Coordinated damping ring meetings
- Dedicated meeting on collaboration
 - ILC-CLIC conveners + C. Biscari and N. Solyak
 - Preparation of CLIC and ILC workshop
- Collaboration discussions foreseen at CLIC and ILC workshop