

14:00 Machine protection and operational availability, issues and solutions 20'

Speaker: Mr. Rudiger Schmidt (CERN)

14:20 Beam loss mechanisms 20'

Speaker: Daniel Schulte (CERN)

14:40 Failure onset detection 20'

Speaker: Dr. Hermann Schmickler (CERN)

15:00 Failure mitigation 20'

Speaker: Michael Jonker (CERN)

Material: Slides

15:20 Operational aspects 20'

Speaker: Marc Ross (Fermilab)

Some final words:

- Impression and what next
- Thanks



Workshop Objectives:

- Bring together experts working on machine protection systems for accelerator facilities with high brilliance or large stored beam energies, with the main focus on linear accelerators and their injectors.
- Establish a coherent view of failure modes and consequences for linear accelerators.
- Review the current state of the art in machine protection systems.
- The participants will benefit from the experience of colleagues who have designed, commissioned and operated such systems.
- The workshop will provide input to the design of machine protection systems at future accelerators, in particular for CLIC and ILC.
- It also should promote synergies in the development of protection systems at different accelerators.



Impressions:

Very useful exchange of ideas and experiences from machines at the design, commissioning and operation stages

- In particular there are many recent experiences from LHC that tell us about foreseen and unforeseen problems
- Very interesting to see how machine protection issues feed into the design (or not) and operation

Secondly, a very useful gathering of people from many machines with special expertise in this field (and related fields)



Next steps:

Another workshop – timing to be decided. In a few years various machines will have significant new experiences (in design or operation)

- for example when LHC is in full flow at 13-14 TeV
- or earlier for other machines

Personal contacts – using the connection initiated and developed in this workshop, possibly a network type of interaction

Ideas or comments



Thanks:

- To all participants
- All speakers
- To the initiators (Michael and Rudiger)
- And to Shauna who made it all work
- ... finally the BBQ team



