

Summary of CFS discussions and homework

ILC CFS Cryogenics workshop at CERN

28 July, 2015

Discussions and homework

- Minimum Access tunnel size
 - Size of 2-K Cold Box (to be checked)
 - Two way traffic during tunnel work at least a few points with alcove structure
- Tunnel layout with access cavern side (to be confirmed)
 - SRF CM at west-side, and utility at east-side
 - Access cavern at east-side, (at this moment)
 - Damping ring at east site,
 - ILC campus most likely west side (Ichinoseki-side)

Discussions and homework

- Access tunnel approach at both cavern and portal
 - ~ 30 m long, straight
 - Curvature of tunnel to allow 15 m long and 1.5 m wide CM.
 - Access tunnel can cross over the ML tunnel by using the difference of cavern to portal point of ~ 100 m difference.

A short-term goal for LCWS2015

- Fix the IP point (to be informed by Tomo)
- Fix the ILC accelerator option with 34 km including 2 x 1.5 km extension at the high energy ends, (to be given by Benno)
- Focus on the access portal point on surface to be investigated by using TOT
 - It can be started with 25 candidate portal site (to be given by Tomo)
- Try to show the progress in a plenary talk at LCWS based on the above study, and develop further in the CFS sessions.
- Comment: Future could include, for example, 50 km option as well as IP point changes and others.

Next meeting