

Analogue cable update

- **What is needed (*all on one joint order if possible!*):**
 - **Liquid-argon cables:** 16 pairs/cable, specified and supplied by LAr group.
 - **Long tile-calorimeter cables:**
 - 128 × 9-pair + 128 × 6-pair to niveau-2 of USA15, for **calorimeter trigger**.
 - 128 × 9-pair + 128 × 6-pair to niveau-1 of USA15, for possible use by **muon trigger**.
 - **Short cables from receiver stations to Preprocessor:**
 - 512 × 16-pair cables.
- **Liquid-argon cables** will be fabricated as half the number of double-length cables, with connectors installed at both ends and factory-tested. These will be cut in half, with connectors put on cut ends *in situ* after cutting to length.
- Same procedure is assumed for **tile-calorimeter cables**.
- For **short cables** we want to optimise length but minimise risk of getting it wrong. *Why not do the same?* Fabricate as 256 cables ~20 m (?) long, cut in half then trim in place, minimising latency and length to 'lose'.
(For short cables, connectors do *not* need to be put on and tested *in situ*!)

➤ **Bill Cleland** prefers cables made in factory:

- Fully tested and specifications enforced.
- Moulded-on connectors can be used.
- Cheaper (for long cables, Tech. Coord. will pay difference).
- Expertise for installing connectors may not be available at CERN.
- Latency gain from 'trimming' is not big.