

Answers by Gerald Eigen (Norway)

What is the capability of constructing and testing prototypes in your country? If limited, do you have access to networks that enable to integrate into prototype projects?

We have workshops that can build detector modules. Before the end of SuperB we were constructing an electromagnetic lead-scintillator sampling calorimeter prototype. The tiles were radial, left-handed and right-handed spirals that were readout with wavelength-shifting fibers and SiPMs. We can do testing with cosmic rays and then have to go to a testbeam. For the DELPHI experiment Oslo and Bergen built the SAT. For ATLAS Oslo and Bergen produced part of the silicon strip detectors.

For the construction of large(r) devices: will/can construction be realised “in house” or is the tendency rather towards subcontracting?

Since projects become bigger and bigger, the contributions by Norway need to be coordinated with those of other institutions.

Is work on instrumentation recognised for careers in your country?

Yes. Several students were hired on engineering positions.