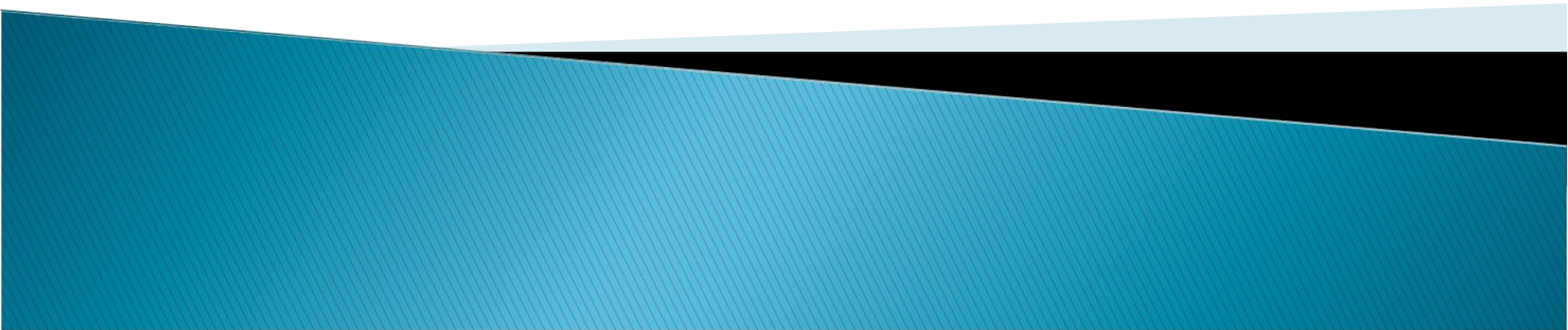


CERN Wishes for Task 2.2 and 2.3



Task 2.2: Geometry toolkit for HEP

- ▶ Build on the existing geometry packages from Geant4 and ROOT
- ▶ The idea is to converge on a *Common Geometry Primitives* library and adapt ROOT and Geant4 to it
 - This represents most of the code (~80%) and therefore most of the maintenance effort
 - Full support for Visualization and Persistency
 - Development of new and more sophisticated shapes fulfilling ILC, LHC needs (e.g. 'union of many' and others)
- ▶ Development and adaptation of standard tools such as overlap checker, optimization, etc.
- ▶ Possible extensions and development of interfaces for Reconstruction and Fast Simulation applications

Task 2.3: participation in PFA

- ▶ Participation in further development of Pandora PFA
- ▶ With particular emphasis on high energies
- ▶ Will include studies of Pandora on the basis of future test beam data using a tungsten-based HCAL