

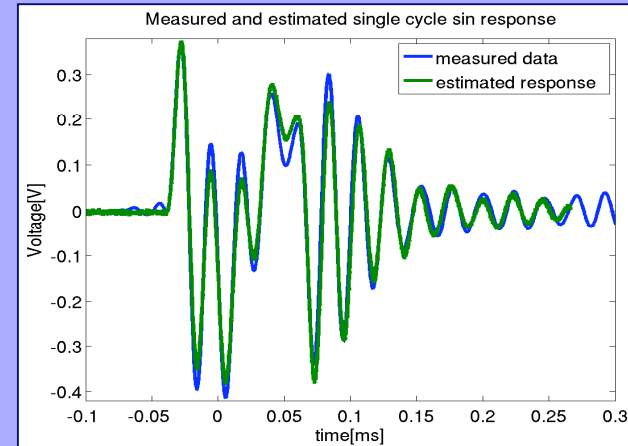
The Rona Hydrophone Array



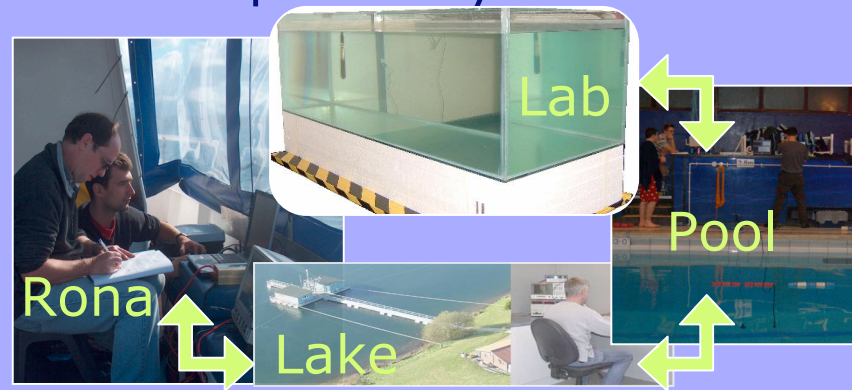
- ★ The QinetiQ underwater acoustic range: a hydrophone array off Rona in North-West Scotland
- ★ 7 hydrophones read out at 16bits, 140kHz - total of ~26Tb data taken since December 2005
- ★ Enables background studies, 'phone characterisation, calibrator deployment, etc.

Acoustic Calibrator

- ◆ Aim
Produce an acoustic bipolar pulse
- ◆ Hydrophone characterisation
Uses equivalent circuit method

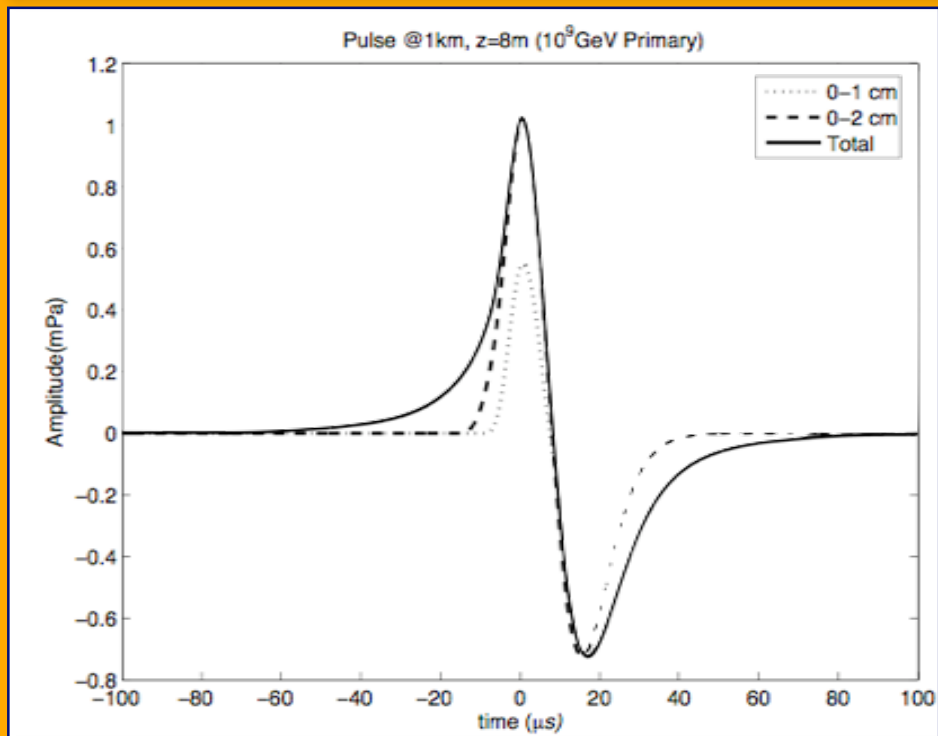


- ◆ Development cycle



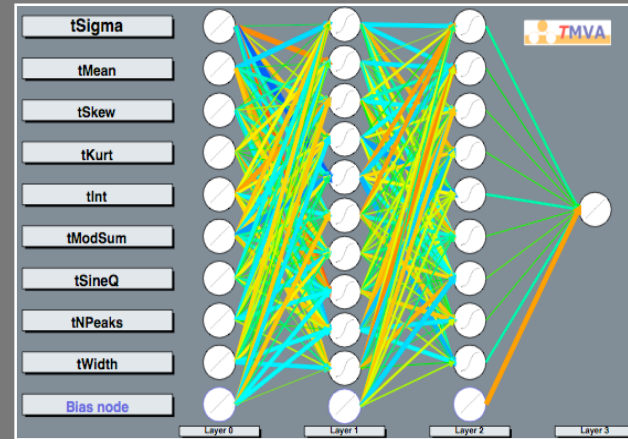
Neutrino Pulse Simulation

- ✦ Extension to CORSIKA UHECR code
- ✦ Comparisons with GEANT at lower energies
- ✦ Subsequent shower parametrisation permits fast UHE neutrino simulation



✦ See Astropart Phys V28 3 (2007) 366

Event Classification



Sensitivity Calculations

