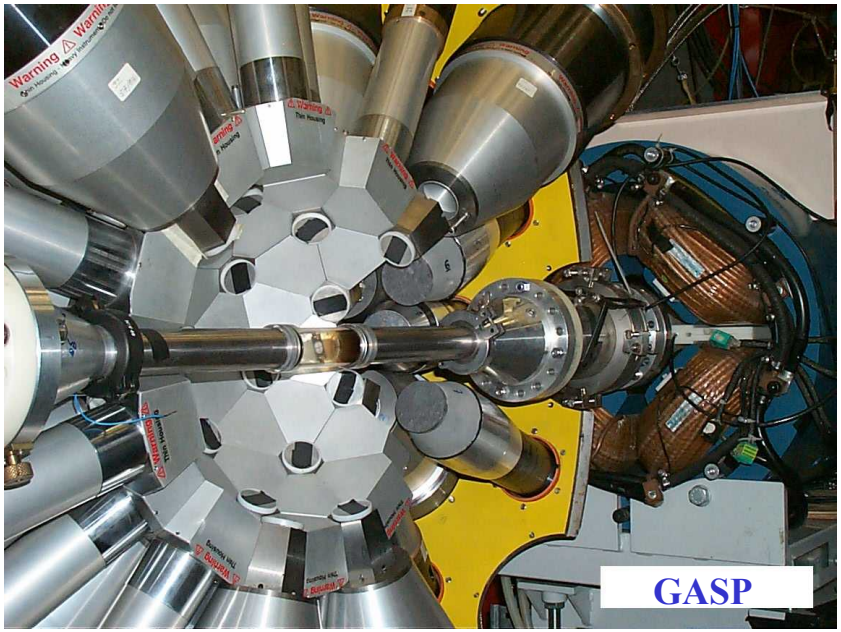
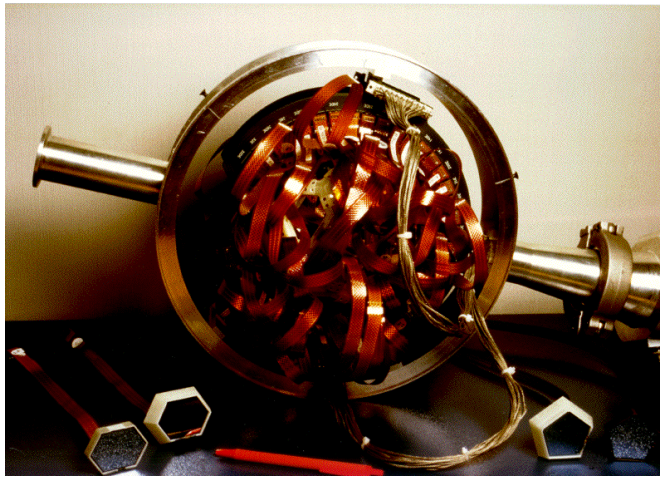
The γ-ray spectrometer GASP

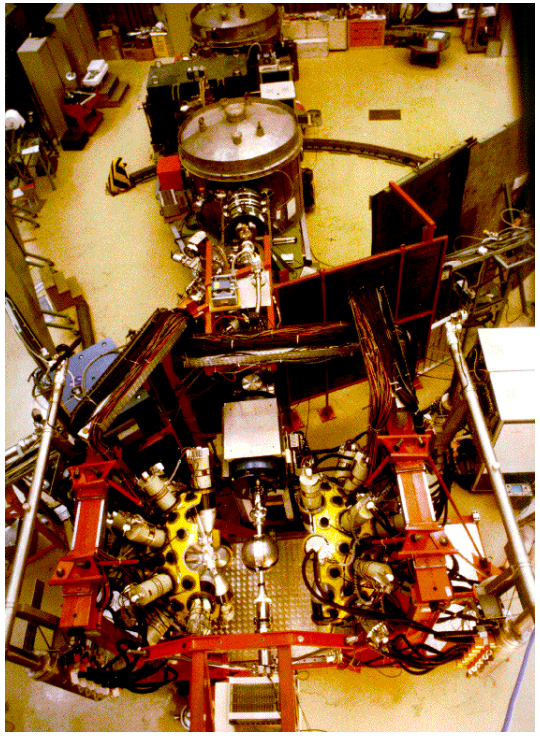


GASP, which is located at the Laboratori Nazionali di Legnaro (LNL), consists of **40 Compton suppressed hyper-pure high efficiency n-type germanium detectors** (HpGe) and a **4π calorimeter composed of 80 BGO crystals.**
The detector houses a reaction chamber of 34 cm diameter where a charged particle detector array (ISIS) composed of **40 ΔE-E Si-telescopes** can be installed (its efficiency for protons is = 70%).

The ISIS charged particle Detector (40 ΔE-E Silicon telescopes)



More information at http://axpd30.pd.infn.it/GASP/



The coupling of GASP with ancillarydetectors like ISIS, the Recoil Mass Separator Camel (see figure) and the neutron detectors makes it a competitive instrument for the detection of very weak reaction channels, with respect to arrays of higher efficiency such as Euroball.