



Tuesday 5 July, 14:25 – 14:50

Session 7: Sterile neutrino searches

**Solar neutrino detectors as sterile neutrino hunters**

M Pallavicini

Università degli Studi di Genova, Italy

Large volume solar neutrino detectors are also excellent tools for the investigation of short distance neutrino and anti-neutrino oscillations by means of artificial radioactive sources. The talk describes the main existing projects on this subject, with particular emphasis to those focussed on the search of eV scale sterile neutrinos and of non-standard neutrino interactions. The SOX project, in particular, will be described in some details. Strengths and weakness with respect to nuclear reactor experiments with similar physics goals will also be discussed.