

Bollettino Settimanale

Lunedì 11 settembre 2017	Martedì 12 settembre 2017	Mercoledì 13 settembre 2017	Giovedì 14 settembre 2017	Venerdì 15 settembre 2017
<p>AULA CONVERSI ORE 14.00 SEMINARIO INFN-Fisica sperimentale particelle elementari</p> <p>The Borexino detector and the Po210 saga <i>Nicola Rossi (INFN Roma)</i></p> <p>According to astrophysical models, the CNO cycle is responsible of ~1% of the luminosity emitted by the Sun. The existence of this process can be proven by the detection of the neutrino flux associated to its specific nuclear reactions. Furthermore, a precision measurement of these neutrino interaction rates can solve the so-called solar abundance problem. Since May 2015, the Borexino experiment, located at LNGS (INFN) , has been improving its sensitivity to CNO neutrinos through a challenging campaign of thermal insulation and background stabilization. The basic idea of this attempt is to constrain independently the ^{210}Bi (the most important background for such a search) to the value inferred by the ^{210}Po rate, as they are chained to the long lived ^{210}Pb parent. The systematic study of the space time evolution of the ^{210}Po activity has given us a lot of interesting and unexpected lessons.</p>		<p style="text-align: center;">Meeting on Physics and chemistry of emerging superconductors and thermoelectric materials http://www2.phys.uniroma1.it/doc/saini/PCST17/pcst17.html Aula Conversi</p>	<p style="text-align: center;">Meeting on Physics and chemistry of emerging superconductors and thermoelectric materials http://www2.phys.uniroma1.it/doc/saini/PCST17/pcst17.html Aula Conversi</p>	<p style="text-align: center;">Meeting on Physics and chemistry of emerging superconductors and thermoelectric materials http://www2.phys.uniroma1.it/doc/saini/PCST17/pcst17.html Aula Conversi</p>