

<b>Course Title</b>	Innovative Particle Detectors and Applications
<b>Lecturer</b>	Donato Creanza (Physics Department and INFN - Bari)
<b>Period</b>	Spetember - October 2016 (10 Hours)
<b>General Information</b>	The course will provide an overview on the latest developments in the field of high energy particle detectors based on solid state technologies.
<b>Contents and Topics</b>	<p><b>Solid State Detectors for High Energy Physics</b></p> <p><u>Lecture 1 (3 h)</u> Introduction to solid state detectors; Use of solid state detectors in high radiation environments: problems and solutions.</p> <p><u>Lecture 2 (3 h)</u> 3D and active edge silicon detectors; Diamond detectors;</p> <p><u>Lecture 3 (2 h)</u> Tracking detectors for HL-LHC</p> <p><u>Lecture 4 (2 h)</u> Laboratory session</p>
<b>Support material</b>	A reading list will be provided by the Lecturer during the course

<b>Evaluation</b>	The students will be required to make an oral presentation on a selected subject