

SSiC 2016

Two-day workshop "*From Silicon to SiC detector*", which will be held at INFN-LNS, Catania (Italy) on **April, 7-8, 2016**.

All information will also be available on the official workshop web site:
<http://www.lns.infn.it/link/SSiC>

SCIENTIFIC PROGRAM AND FORMAT

The ion detection and identification under extreme conditions of external background is certainly one of the most important goals of the technology implied in nuclear physics. The Silicon Carbide technology offers today an ideal response to such challenges, since it gives the opportunity to cope the excellent properties of silicon detectors with a much larger radiation hardness, thermal stability and insensitivity to visible light.

SiCILIA is an INFN-CNR collaboration to develop innovative processes, which allows a massive production of thick ($>100\ \mu\text{m}$) and large area (about $1\ \text{cm}^2$) SiC detectors with unprecedented level of defects.

Two different manufacture technology will be investigated: the Schottky and the p/n junctions. The Schottky represents today the state of art for SiC detectors. We propose to push forward the limits for this technology in relation to the thickness and the active area. The p/n represents a novel solution for SiC, that is particularly promising in analogy to similar junctions based on Silicon devices.

In the frame of the SiCILIA activities the workshop aims to discuss the state of art of Silicon detector for a possible technological transfer on SiC.

The format of the workshop consists of invited talks and discussion sessions.

A preliminary list of speakers includes:

G. Ambrosi (INFN-Perugia)
G. Arena (STM-Catania)
M. Boscardin (FBK-Trento)
V. Bonvicini (INFN-Trieste)
M. Bruzzi (UNIFI)
D. Calvo (INFN-Torino)
L. Calcagno (UNICT)
G. Chiodini (INFN-Lecce)
G. Valvo (STM-Catania)
G. Gorini (UNIMIB)
F. Moscatelli (IMM-CNR Bologna)
F. Nava* (UniMORE)
C. Piemonte* (FBK-Trento)
A. Sciuto* (IMM-CNR Catania)

(*) to be confirmed

GENERAL INFORMATION

The workshop will take place at INFN – Laboratori Nazionali del Sud, Main Conference Room. The workshop will begin on Thursday, April 7, at 15:00 pm and will end in the afternoon of Friday, April 8.

The LNS can be easily reached, from the city center, also by public transportation (see the conference website for more details).

Organizing Committee:

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