SiPM workshop: from fundamental research to industrial applications

CAEN Award & Concluding remarks

Francesco & Elisabetta
CAEN Young Researcher Award

- Participants: 17
- Criteria:
  - Clarity in slides and exposition
  - Presentation layout and style
  - Research quality
  - Personality and motivation
  - Age

Participants age

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• Winner: **Samuela Lomazzi**
  • “A SiPM based novel approach to cytosolic calcium detection by bioluminescence”
Thank you for a very productive workshop!

• Wide participation, greater than what we expected!
  • Community is very active and likes to meet/discuss/interact/exchange ideas
  • Thanks to all chairs and speakers for always being on time!
  • Hope you enjoyed coffee breaks, lunches and social events!

• This was a first attempt to bring together very different fields of application, trying to connect a broader community of SiPM users and developers!
Measuring reflections in vacuum

F. Retiere
Measurement at IHEP and IOE (China)
1-1.5 μm of SiO₂ on top of FBK SiPM
Hamamatsu much thinner

A. Dalla Mora

DCR or Noise increase in SiPMs due to rad

A. Heering
Leakage current increase in Si-PIN diodes for 1 MeV equivalent dose
slope = 3.5E-17 A/cm

A. Razeto

F. Izraelevitch
Measurements show ~4X more noise

M. Caccia

S. Loporchio

J. Smith

FBK: 25 μm ~15 MΩ

Below 150 K the tunneling is the main contribution to DCR
Proceedings

• Journal: *Nuclear Instruments and Methods A*
  • Special issue title: *SiPM Workshop: from fundamental research to industrial applications (SiPM Workshop Bari 2019)*

• Submission open: **October 10, 2019**
• Submission deadline: **November 22, 2019**
• More info will be posted here: [https://agenda.infn.it/event/17801/page/4867-proceedings](https://agenda.infn.it/event/17801/page/4867-proceedings)
Next «SiPM workshop» editions?

- During this workshop, we got many suggestions to start a series of SiPM workshops to take place every 2 years

- If you want to host the next workshop, please let the SOC know and nominate your city/institution asap!
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Photo Gallery
GRAZIE A TUTTI

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