

Astroparticle Physics PhD Defenses



Report of Contributions

Contribution ID: 1

Type: **not specified**

Multiple detector analysis in the CRESST Dark Matter experiment

Friday, 16 October 2020 17:00 (1 hour)

Presenter: DI LORENZO, Stefano (GSSI)

Contribution ID: 2

Type: **not specified**

Discussion

Friday, 16 October 2020 18:00 (1 hour)

Defense Committee:

Fernando Ferroni (GSSI - L'Aquila), Chair

Riccardo Brugnera (Università di Padova)

Natalia Di Marco (GSSI - L'Aquila)

Maria Elena Monzani (SLAC National Accelerator Laboratory, USA)

Andrei Puiu (GSSI - L'Aquila)

Substitutes: Lorenzo Pagnanini (GSSI - L'Aquila), Sergio Petrera (GSSI - L'Aquila)

External Reviewers:

Maria Elena Monzani (SLAC National Accelerator Laboratory, USA)

Claudia Nones (CEA Saclay, France)

Ezio Previtali (Università di Milano Bicocca)

Advisors:

Paolo Gorla (INFN-LNGS)

Carlo Bucci (INFN-LNGS)

Contribution ID: 3

Type: **not specified**

Exploring the Inelastic Dark Matter frontier with the CRESST experiment

Presenter: OLMI, Miriam (GSSI)

Contribution ID: 4

Type: **not specified**

Discussion

Defense Committee:

Cristiano Galbiati (GSSI - L'Aquila), Chair

Elisabetta Baracchini (GSSI - L'Aquila)

Alfredo Ferella (Università dell'Aquila)

Antonella Incicchitti (INFN - Roma)

Marco Selvi (INFN - Bologna)

Substitutes: Ivan De Mitri (GSSI - L'Aquila), Francesco Salamida (Università dell'Aquila)

External Reviewers:

Fabio Bellini (INFN - Roma)

Frank Avignone (University of South Carolina, USA)

Eric Norman (University of California, Berkely, USA)

Advisor: Paolo Gorla (INFN - LNGS)

Co-advisor: Federica Petricca (Max Planck Institute for Physics, Munich, Germany)

Contribution ID: 5

Type: **not specified**

First simultaneous measurement of low-energy pp-chain solar neutrinos and prospects for CNO neutrino detection in Borexino

Presenter: GUFFANTI, Daniele (GSSI)

Contribution ID: 6

Type: **not specified**

Discussion

Defense Committee:

Ivan De Mitri (GSSI-L'Aquila), Andrea De Simone (SISSA-Trieste), Fernando Ferroni (GSSI-L'Aquila),
Francesco Fidecaro (Univ. Pisa), Francesco Vissani (GSSI-L'Aquila)

Substitutes: Elisabetta Baracchini (GSSI-L'Aquila), Pasquale Blasi (GSSI-L'Aquila), Giulia Pagliaroli
(GSSI-L'Aquila)

External Reviewers:

Carlos Peña Garay (Canfranc Laboratory, Spain),
Riccardo Brugnera (Università di Padova)

Advisors: Matteo Agostini (Technical University Munchen, Germany), Nicola Rossi (INFN LNGS)

Contribution ID: 7

Type: **not specified**

Theoretical calculation of nuclear reactions of interest for Big Bang Nucleosynthesis

Presenter: GNECH, Alex (GSSI)

Contribution ID: 8

Type: **not specified**

Discussion

Defense Committee:

Ivan De Mitri (GSSI-L'Aquila), Chair

Giulia Pagliaroli (GSSI-L'Aquila)

Sergio Petrera (GSSI-L'Aquila)

Massimo Mannarelli (INFN-LNGS)

Sergio Cristallo (INAF - Osservatorio d'Abruzzo)

Substitutes: Pasquale Blasi (GSSI-L'Aquila), Marica Branchesi (GSSI-L'Aquila)

External Reviewers:

Sonia Bacca (Gutenberg Universitat, Mainz, Germany)

Christian Forssén (Chalmers University of Technology, Gothenburg, Sweden)

Nunzio Itaco (Università della Campania "L. Vanvitelli", Caserta)

Advisor: Laura Marcucci (Università di Pisa)

Co-advisor: Michele Viviani (INFN Pisa)

Contribution ID: 9

Type: **not specified**

Open problems in neutrino astrophysics

Presenter: MASCARETTI, Carlo (GSSI)

Contribution ID: **10**

Type: **not specified**

Discussion

Defense Committee:

Ivan De Mitri (GSSI-L'Aquila), Chair

Giulia Pagliaroli (GSSI-L'Aquila)

Sergio Petrerá (GSSI-L'Aquila)

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Substitutes: Pasquale Blasi (GSSI-L'Aquila), Marica Branchesi (GSSI-L'Aquila)

External Reviewers:

Markus Ahlers (Niels Bohr Institute, Copenhagen, Denmark)

Paolo Lipari (INFN Roma)

Maurizio Spurio (Università di Bologna)

Advisor: Francesco Vissani (GSSI-L'Aquila)