

Astroparticle Physics PhD Defenses (Session 1)



Report of Contributions

Contribution ID: 1

Type: **not specified**

Search for double beta decay of ^{130}Te to the 0^+ states of ^{130}Xe with the CUORE experiment

Wednesday, 22 July 2020 14:30 (1 hour)

Presenter: FANTINI, Guido (GSSI)

Contribution ID: 2

Type: **not specified**

Discussion

Wednesday, 22 July 2020 15:30 (1 hour)

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:

Alessandro Bettini (Università di Padova)

Antonella Incicchitti (INFN - Roma)

Michelle Dolinski (Drexel University, USA)

Advisor: Carlo Bucci (INFN - LNGS)

Co-advisor: Claudia Tomei (INFN - Roma)

Contribution ID: 3

Type: **not specified**

Exploring the Inelastic Dark Matter frontier with the CRESST experiment

Wednesday, 22 July 2020 16:30 (1 hour)

Presenter: OLMI, Miriam (GSSI)

Contribution ID: 4

Type: **not specified**

Discussion

Wednesday, 22 July 2020 17:30 (1 hour)

Defense Committee:

Cristiano Galbiati (GSSI - L'Aquila), Chair

Elisabetta Baracchini (GSSI - L'Aquila)

Alfredo Ferella (Università dell'Aquila)

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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 Petrerá (GSSI-L'Aquila)

Massimo Mannarelli (INFN-LNGS)

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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)

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External Reviewers:

Markus Ahlers (Niels Bohr Institute, Copenhagen, Denmark)

Paolo Lipari (INFN Roma)

Maurizio Spurio (Università di Bologna)

Advisor: Francesco Vissani (GSSI-L'Aquila)