

Astroparticle Physics PhD Defenses



Report of Contributions

Contribution ID: 1

Type: **not specified**

Nucleosynthesis of light and heavy elements across the Galaxy

Tuesday, 2 February 2021 11:00 (1 hour)

Presenter: VESCOVI, Diego

Contribution ID: 2

Type: **not specified**

Discussion

Tuesday, 2 February 2021 12:00 (1 hour)

Defense Committee:

Stefano Ragazzi (Università di Milano “Bicocca”), Chair

Roberto Aloisio (GSSI - L’Aquila)

Giampaolo Cò (Università del Salento)

Gemma Testera (INFN - Genova)

Claudia Travaglio (INAF - Torino)

Substitutes: Natalia Di Marco (GSSI - L’Aquila), Carmelo Evoli (GSSI - L’Aquila)

External Reviewers:

Almudena Arcones (Technische Universität Darmstadt, Germany)

John C. Lattanzio (Monash University, Australia)

Nikos Prantzos (CNRS Sorbonne Université, France)

Advisors:

Marica Branchesi (GSSI - L’Aquila)

Sergio Cristallo (INAF - Teramo)

Contribution ID: 3

Type: **not specified**

Exploring the Inelastic Dark Matter frontier with the CRESST experiment

Presenter: OLM, 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 Petrerà (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:

Markus Ahlers (Niels Bohr Institute, Copenhagen, Denmark)

Paolo Lipari (INFN Roma)

Maurizio Spurio (Università di Bologna)

Advisor: Francesco Vissani (GSSI-L'Aquila)

Contribution ID: 11

Type: **not specified**

Newtonian noise studies in 2nd and 3rd generation gravitational wave interferometric detectors

Presenter: BADARACCO, Francesca (GSSI)

Contribution ID: **12**

Type: **not specified**

Discussion

Defense Committee:

Fernando Ferroni (GSSI - L'Aquila), Chair

Pasquale Blasi (GSSI - L'Aquila)

Francesco Fidecaro (Università di Pisa)

Paola Leaci (Università di Roma "La Sapienza")

Giovanno Losurdo (INFN Pisa)

Substitutes: Cristiano Galbiati (GSSI - L'Aquila), Elisabetta Baracchini (GSSI - L'Aquila)

External Reviewers:

Enrico Calloni (Università di Napoli "Federico II")

Michael Coughlin (University of Minnesota, USA)

Bram Slagmolen (Australian National University, Australia)

Advisor:

Jan Harms (GSSI - L'Aquila)

Contribution ID: 13

Type: **not specified**

Parameter estimation with future gravitational wave detectors

Presenter: GRIMM, Stefan

Contribution ID: **14**

Type: **not specified**

Discussion

Defense Committee:

Fernando Ferroni (GSSI - L'Aquila), Chair

Pasquale Blasi (GSSI - L'Aquila)

Francesco Fidecaro (Università di Pisa)

Paola Leaci (Università di Roma "La Sapienza")

Giovanno Losurdo (INFN Pisa)

Substitutes: Cristiano Galbiati (GSSI - L'Aquila), Elisabetta Baracchini (GSSI - L'Aquila)

External Reviewers

Nelson Christensen (Observatoire de la Côte d'Azur, France)

Ik Siong Heng (University of Glasgow, UK)

Alberto Sesana (Università di Milano "Bicocca")

Advisor:

Jan Harms (GSSI - L'Aquila)