

# **The Physics of the Sun and the Solar Neutrinos: 2nd**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Registration

*Monday, October 4, 2010 8:30 AM (30 minutes)*

Contribution ID: 1

Type: **not specified**

## Welcome - Chair: A. Ianni

*Monday, October 4, 2010 9:00 AM (15 minutes)*

Contribution ID: 2

Type: **not specified**

## **Best values and uncertainties of the nuclear reaction cross sections important to solar burning**

*Monday, October 4, 2010 9:15 AM (15 minutes)*

**Presenter:** Dr FORMICOLA, Alba (INFN - LNGS)

Contribution ID: 3

Type: **not specified**

## **Solar abundances**

*Monday, October 4, 2010 9:30 AM (40 minutes)*

**Presenter:** Prof. GREVESSE, Nicolas (Institut d'Astrophysique, Université de Liège)

Contribution ID: 4

Type: **not specified**

## Update on the Solar Standard Model

*Monday, October 4, 2010 10:10 AM (40 minutes)*

**Presenter:** Prof. SERENELLI, Aldo (Institute for Advanced Study, Princeton)

Contribution ID: 5

Type: **not specified**

## **Helioseismology - Chair: A. Formicola**

*Monday, October 4, 2010 11:20 AM (40 minutes)*

**Presenter:** Prof. CHAPLIN, William J. (University of Birmingham)

Contribution ID: 6

Type: **not specified**

## **Some new explorations of the solar (stellar) plasma in space and on ground: dynamical models and related neutrino predictions**

*Monday, October 4, 2010 12:00 PM (40 minutes)*

**Presenter:** Prof. TURCK-CHIEZE, Sylvaine (CEA Saclay)



Contribution ID: 7

Type: **not specified**

## **Helioseismic and solar neutrino constraints on the composition and on the opacity of the sun - Chair: D. Montanino**

*Monday, October 4, 2010 2:30 PM (40 minutes)*

**Presenter:** Dr VILLANTE, Francesco (L'Aquila University)

Contribution ID: 8

Type: **not specified**

## **Phenomenology of solar neutrinos and SSM parameters (preliminary) - Chair: M. Nakahata**

*Tuesday, October 5, 2010 9:30 AM (40 minutes)*

**Presenter:** Prof. PEÑA GARAY, Carlos (IFIC, Valencia)

Contribution ID: 9

Type: **not specified**

## **Solar neutrinos and theta- 13**

*Monday, October 4, 2010 3:10 PM (40 minutes)*

**Presenter:** MALTONI, Michele (Unknown)

Contribution ID: **10**

Type: **not specified**

## **Collective plasma processes and contributions to opacity in the solar interior**

**Presenter:** Prof. BINGHAM, Robert (CCLRC/RAL)

Contribution ID: **11**

Type: **not specified**

## **Social dinner**

Contribution ID: 12

Type: **not specified**

## **Solar neutrino results from Super-Kamiokande - Chair: G. Ranucci**

*Monday, October 4, 2010 4:50 PM (40 minutes)*

**Presenter:** Prof. YAMADA, Satoru (Kamioka Observatory, Institute of Cosmic Ray Research, University of Tokyo)

Contribution ID: 13

Type: **not specified**

## Results on solar neutrinos from Borexino

*Tuesday, October 5, 2010 10:10 AM (40 minutes)*

**Presenter:** TESTERA, Gemma (INFN, Sezione di Genova - Universita & INFN, Genova)

Contribution ID: 14

Type: **not specified**

## **SNO+ and future solar neutrino experiments - Chair: A. Razeto**

*Tuesday, October 5, 2010 11:20 AM (40 minutes)*

**Presenter:** Prof. CHEN, Mark (Queen's University, Canada)



Contribution ID: 15

Type: **not specified**

## **Asymmetric dark matter and the Sun**

*Tuesday, October 5, 2010 12:30 PM (30 minutes)*

**Presenter:** FRANDSEN, Mads (Oxford University)

Contribution ID: 16

Type: **not specified**

## **Search for WIMP annihilation in the Sun with Super-Kamiokande - Chair: Y. Koshio**

*Tuesday, October 5, 2010 2:30 PM (30 minutes)*

**Presenter:** Prof. YAMADA, Satoru (Kamioka Observatory, Institute of Cosmic Ray Research, University of Tokyo)

Contribution ID: 17

Type: **not specified**

## Summary talk

*Tuesday, October 5, 2010 3:00 PM (1 hour)*

**Presenter:** Dr VISSANI, Francesco (INFN - LNGS)

Contribution ID: **18**

Type: **not specified**

## **Antineutrino imprint by solar flare**

*Tuesday, October 5, 2010 12:00 PM (30 minutes)*

**Presenter:** Prof. FARGION, Daniele (Physics Department, Rome University 1 and INFN Rome)

Contribution ID: **19**

Type: **not specified**

## **Solar neutrinos and non-standard neutrino properties**

*Monday, October 4, 2010 3:50 PM (40 minutes)*

**Presenter:** PALAZZO, Antonio (CSIC - University of Valencia)