

**WONDER - Workshop On
Next Dark Matter
Experimental Researches at
LNGS**

Report of Contributions

Contribution ID: 2

Type: **not specified**

1. Dark Matter: the experimental quest in the laboratory

Primary author: RUBBIA, Carlo

Presenter: RUBBIA, Carlo

Contribution ID: 3

Type: **not specified**

1. Dark Matter: the experimental quest in the laboratory

Presenter: RUBBIA, Carlo

Contribution ID: 4

Type: **not specified**

2. LHC impact on Dark Matter searches

Presenter: GARCIA CERDENO, David (Unknown)

Contribution ID: 5

Type: **not specified**

3. Phenomenological review on Dark Matter (interaction channels against detection techniques)

Presenter: FORNENGO, Nicolao

Contribution ID: 6

Type: **not specified**

4. Review on the impact of indirect Dark Matter searches on direct searches

Presenter: ULLIO, Piero (SISSA)

Contribution ID: 7

Type: **not specified**

1. CRESST

Presenter: SEIDEL, Wolfgang

Contribution ID: 8

Type: **not specified**

2. DAMA/LIBRA

Presenter: BELLI, Pierluigi (INFN Roma Tor Vergata)

Contribution ID: 9

Type: **not specified**

3. The Xenon Dark Matter Search

Presenter: APRILE, Elena

Contribution ID: **10**

Type: **not specified**

4. WArP

Presenter: MONTANARI, Claudio (Dipartimento di Fisica Nucleare e Teorica)

Contribution ID: 11

Type: **not specified**

1. Impact of muon-induced backgrounds and shielding

Presenter: KUDRYAVTSEV, Vitaly (University of Sheffield)

Contribution ID: 12

Type: **not specified**

2. Use of water and scintillator shielding at Gran Sasso

Presenter: CALAPRICE, Frank (Princeton University)

Contribution ID: 13

Type: **not specified**

1. Review on Dark Matter activities and new proposal in underground laboratories around the world

Presenter: Prof. SMITH, Nigel (CCLRC Rutherford Appleton Laboratory)

Contribution ID: 14

Type: **not specified**

2. Review on future directional detectors

Presenter: SPOONER, Neil (University of Sheffield)

Contribution ID: 15

Type: **not specified**

3. Review on Dark Matter search with cryogenic monophasic detectors

Presenter: YAMASHITA, Masashi

Contribution ID: 16

Type: **not specified**

4. Dark Side proposal at LNGS

Presenter: GALBIATI, Cristiano (Princeton University)

Contribution ID: 17

Type: **not specified**

5. DARWIN: Dark Matter WIMP searches with Noble Liquids

Presenter: Prof. BAUDIS, Laura (RWTH-Aachen University)

Contribution ID: 18

Type: **not specified**

1. Sensitivity, Performance Stability and Intrinsic Background in Bolometric detectors for Dark Matter searches

Presenter: CREMONESI, Oliviero (INFN)

Contribution ID: 19

Type: **not specified**

2. Sensitivity, Performance Stability and Intrinsic Background in Cryogenic Liquids detectors in Dark Matter searches

Presenter: TBD

Contribution ID: 20

Type: **not specified**

3. Sensitivity, Performance Stability and Intrinsic Background in Scintillator detectors in Dark Matter searches

Presenter: INCICCHITTI, Antonella (INFN Roma 2)

Contribution ID: 21

Type: **not specified**

4. Concluding remarks

Presenter: PETRONZIO, Roberto (Unknown)

Contribution ID: 22

Type: **not specified**

contribution 1

Contribution ID: 23

Type: **not specified**

Dark Matter: the experimental quest in the laboratory

Monday, 22 March 2010 09:30 (40 minutes)

Presenter: RUBBIA, Carlo

Session Classification: First Session: a general experimental and theoretical framework

Contribution ID: 24

Type: **not specified**

LHC impact on Dark Matter searches

Monday, 22 March 2010 10:20 (40 minutes)

Presenter: CERDENO, David G. (Universidad Autonoma de Madrid)

Session Classification: First Session: a general experimental and theoretical framework

Contribution ID: 25

Type: **not specified**

Phenomenological review on Dark Matter (interaction channels against detection techniques)

Monday, 22 March 2010 11:40 (40 minutes)

Presenter: FORNENGO, Nicolao (INFN Torino)

Session Classification: First Session: a general experimental and theoretical framework

Contribution ID: 26

Type: **not specified**

Review on the impact of indirect Dark Matter searches on direct searches

Monday, 22 March 2010 12:30 (40 minutes)

Presenter: ULLIO, Piero (SISSA)

Session Classification: First Session: a general experimental and theoretical framework

Contribution ID: 27

Type: **not specified**

CRESST

Monday, 22 March 2010 14:30 (40 minutes)

Presenter: SEIDEL, Wolfgang

Session Classification: Second Session: review of running Dark Matter experiments at LNGS and their future perspectives

Contribution ID: 28

Type: **not specified**

DAMA / LIBRA

Monday, 22 March 2010 15:20 (40 minutes)

Presenter: BELLI, Pierluigi (INFN Roma Tor Vergata)

Session Classification: Second Session: review of running Dark Matter experiments at LNGS and their future perspectives

Contribution ID: 29

Type: **not specified**

The Xenon Dark Matter Search

Monday, 22 March 2010 16:30 (40 minutes)

Presenter: APRILE, Elena (Columbia University)

Session Classification: Second Session: review of running Dark Matter experiments at LNGS and their future perspectives

Contribution ID: **30**

Type: **not specified**

WArP

Monday, 22 March 2010 17:20 (40 minutes)

Presenter: MONTANARI, Claudio (Dipartimento di Fisica Nucleare e Teorica)

Session Classification: Second Session: review of running Dark Matter experiments at LNGS and their future perspectives

Contribution ID: 31

Type: **not specified**

Impact of muon-induced backgrounds and shielding

Monday, 22 March 2010 18:10 (30 minutes)

Presenter: KUDRYAVTSEV, Vitaly (University of Sheffield)

Session Classification: Third Session: review of Dark Matter search related backgrounds

Contribution ID: 32

Type: **not specified**

Use of water and scintillator shielding at Gran Sasso

Monday, 22 March 2010 18:50 (30 minutes)

Presenter: CALAPRICE, Frank (Princeton University)

Session Classification: Third Session: review of Dark Matter search related backgrounds

Contribution ID: 33

Type: **not specified**

Review on Dark Matter activities and new proposal in underground laboratories around the world

Tuesday, 23 March 2010 09:00 (40 minutes)

Presenter: Prof. SMITH, Nigel (CCLRC Rutherford Appleton Laboratory)

Session Classification: Fourth Session: review on the status and perspectives of Dark Matter searches carried out around the world and review of new proposals at LNGS

Contribution ID: 34

Type: **not specified**

Review on future directional detectors

Tuesday, 23 March 2010 09:50 (40 minutes)

Presenter: SPOONER, Neil (University of Sheffield)

Session Classification: Fourth Session: review on the status and perspectives of Dark Matter searches carried out around the world and review of new proposals at LNGS

Contribution ID: 35

Type: **not specified**

XMASS at Kamioka: Large Scale Cryogenic detector in the underground laboratory

Tuesday, 23 March 2010 10:40 (40 minutes)

Presenter: YAMASHITA, Masaki (Kamioka Observatory, ICRR, University of Tokyo)

Session Classification: Fourth Session: review on the status and perspectives of Dark Matter searches carried out around the world and review of new proposals at LNGS

Contribution ID: 36

Type: **not specified**

Dark Side proposal at LNGS

Tuesday, 23 March 2010 11:50 (30 minutes)

Presenter: GALBIATI, Cristiano (Princeton University)

Session Classification: Fourth Session: review on the status and perspectives of Dark Matter searches carried out around the world and review of new proposals at LNGS

Contribution ID: 37

Type: **not specified**

DARWIN: Dark Matter WIMP searches with Noble Liquids

Tuesday, 23 March 2010 12:30 (30 minutes)

Presenter: BAUDIS, Laura (University of Zurich)

Session Classification: Fourth Session: review on the status and perspectives of Dark Matter searches carried out around the world and review of new proposals at LNGS

Contribution ID: 38

Type: **not specified**

Sensitivity, Performance Stability and Intrinsic Background in Bolometric detectors for Dark Matter searches

Tuesday, 23 March 2010 14:30 (40 minutes)

Presenter: CREMONESI, Oliviero (INFN)

Session Classification: Fifth Session: detailed discussion on future possible detection techniques at LNGS and their discovery capability

Contribution ID: 39

Type: **not specified**

Sensitivity, Performance Stability and Intrinsic Background in Cryogenic Liquids detectors in Dark Matter searches

Tuesday, 23 March 2010 15:20 (40 minutes)

Presenter: SUMNER, T. J. (Imperial College, London)

Session Classification: Fifth Session: detailed discussion on future possible detection techniques at LNGS and their discovery capability

Contribution ID: 40

Type: **not specified**

Sensitivity, Performance Stability and Intrinsic Background in Scintillator detectors in Dark Matter searches

Tuesday, 23 March 2010 16:10 (40 minutes)

Presenter: INCICCHITTI, Antonella (INFN Roma 2)

Session Classification: Fifth Session: detailed discussion on future possible detection techniques at LNGS and their discovery capability

Contribution ID: 41

Type: **not specified**

Concluding remarks

Tuesday, 23 March 2010 17:20 (40 minutes)

Presenter: PETRONZIO, Roberto (Unknown)

Session Classification: Fifth Session: detailed discussion on future possible detection techniques at LNGS and their discovery capability

Contribution ID: 42

Type: **not specified**

Final discussion

Tuesday, 23 March 2010 18:00 (30 minutes)

Session Classification: Fifth Session: detailed discussion on future possible detection techniques at LNGS and their discovery capability