

# EXPERIMENT: EXP-08-ArDM

## Database of publications LSC

### Publications on refereed journals:

ArDM Collaboration: F. Resnati et al., Status of the ArDM experiment  
Prepared for IDM 2010: 8th International Workshop on Identification of Dark Matter 2010, Montpellier, France, July 26-30, 2010  
PoS IDM2010:108,2011

Feasibility of high-voltage systems for a very long drift in liquid argon TPCs  
S. Horikawa, A. Badertscher, L. Kaufmann, M. Laffranchi, A. Marchionni, M. Messina, G. Natterer, A. Rubbia, ETH Zurich  
Prepared for 1st International Workshop towards the Giant Liquid Argon Charge Imaging Experiment (GLA 2010), Tsukuba, Japan, March 28-31, 2010  
Published in J.Phys.Conf.Ser. 308:012027, 2011  
e-Print: arXiv:1009.4908 [physics.ins-det]

ArDM: a ton-scale LAr detector for direct Dark Matter searches.  
By ArDM Collaboration: A. Marchionni et al., Dec 2010.  
Prepared for 1st International Workshop towards the Giant Liquid Argon Charge Imaging Experiment (GLA2010), Tsukuba, Japan, March 28-31, 2010  
Published in J. Phys. Conf Ser. 308:012006,2011  
e-Print: arXiv:1012.5967 [physics.ins-det]

First results on light readout from the 1-ton ArDM liquid argon detector for dark matter searches.  
By the ArDM Collaboration (C. AMSLER et al.). Sep 2010. 14pp.  
Published in JINST 5:P11003,2010.  
e-Print: arXiv:1009.3641 [physics.ins-det]

The ArDM -a ton- scale liquid argon experiment for direct dark matter detection.  
By ArDM Collaboration (Polina Otyugova for the collaboration). 2010. 4pp.  
Prepared for INVISIBLE UNIVERSE INTERNATIONAL CONFERENCE: Toward a new cosmological paradigm, Paris, France, 29 Jun - 3 Jul 2009.  
Published in AIP Conf.Proc.1241:435-438,2010. Also in \*Durham 2009, Patras Workshop on Axions, WIMPs and WISPs\* 31-34

The ArDM experiment.  
By ArDM Collaboration (M. Haranczyk et al.). Jun 2010. 6pp.  
To appear in the proceedings of Cracow Epiphany Conference on Physics in Underground Laboratories and its Connection with LHC, Cracow, Poland, 5-8 Jan 2010.  
Published in Acta Phys.Polon.B41:1441-1446,2010.  
e-Print: arXiv:1006.5335 [physics.ins-det]

The Argon Dark Matter Experiment: ArDM.  
By ArDM Collaboration (Christian Regenfus for the collaboration). Dec 2009. 4pp.  
To appear in the proceedings of 11th International Conference on Topics in Astroparticle and Underground Physics (TAUP 2009), Gran Sasso, Assergi, Italy, 1-5 Jul 2009.  
Published in J.Phys.Conf.Ser.203:012024,2010.  
e-Print: arXiv:0912.2962 [physics.ins-det]

**Conference proceedings:**

ArDM Collaboration, "Status of the ArDM experiment," PoS IDM2010 (2011) 108

**Oral/poster presentations at conferences:**

L. Epprecht, ArDM (CERN RE18) - A Liquid Argon Dark Matter Experiment  
Talk at UCLA Dark Matter 2010, Los Angeles, USA; February 26, 2010.

L. Epprecht, The Argon Dark Matter Experiment  
Talk at TIPP2011, Chicago, USA; June 11, 2011.

L. Epprecht, LAr Instrumentation  
Talk and Discussion at LAGUNA Kickoff Meeting, Geneva, Switzerland; October 18, 2011.

L. Epprecht, Light readout system and experience of ArDM-1t  
Talk at LAGUNA LBNO, Paris, France; March 11, 2012.

L. Epprecht, ArDM: Status Report  
Talk at LSC Scientific Committee Meeting, Canfranc, Spain; May 11, 2012.

L. Epprecht  
ArDM (CERN RE18) - A Liquid Argon Dark Matter Experiment  
Talk at CHIPP-Winter School, Ascona, Switzerland; January 23, 2010

L. Epprecht, ArDM - Update since Run09  
Talk at PhD Seminary 2010, Zurich, Switzerland; August 08, 2010.

L. Epprecht, Development of liquid argon TPCs at CERN  
Talk at PhD Seminary 2011, Zurich, Switzerland; August 29, 2011.

L. Epprecht, The ArDM Charge Readout System  
Talk at ArDM Collaboration Meeting, Geneva, Switzerland; February 17, 2010.

L. Epprecht, Direct Dark Matter Search @ CERN  
Talk at IPP Annual Meeting, ETH, Zurich, Switzerland; December 17, 2009.

L. Epprecht, Cryogenic System of the ArDM Detector  
Poster at NNN11 Workshop, Zürich; November 7, 2011.

U. Degunda, The ArDM Experiment: A Double Phase Argon Calorimeter and TPC for Direct  
Detection of Dark Matter  
Talk at TeV Particle Astrophysics 2010, Paris, France; July 19, 2010.

U. Degunda, Cryogenic System of the ArDM Detector  
Poster at NNN11 Workshop, Zürich, Switzerland; November 7-9, 2011.

U. Degunda, The ArDM Experiment: A Double Phase Argon Calorimeter and TPC for Direct  
Detection of Dark Matter  
Talk at SPS Annual Meeting 2010, Univ. Basel, Switzerland; June 21, 2010.

U. Degunda, The ArDM Experiment: A 1 Ton Liquid Argon Detector for Direct Dark Matter Search

Talk at SPS Annual Meeting 2012, ETH Zürich, Switzerland; June 21, 2012.

U. Degunda, The ArDM Experiment: First Measurements in Liquid Argon and Upgrade of the Control System

Talk at Doktorandenseminar of ETH and UZH 2010, Zürich, Switzerland; August 31, 2010.

U. Degunda, The ArDM Experiment: A 1 Ton Liquid Argon Detector for Direct Dark Matter Search

Talk at Doktorandenseminar of ETH and UZH 2011, Zürich, Switzerland; August 29, 2011.

U. Degunda, Highlights of Direct Dark Matter Search with the ArDM Experiment

Talk at Institutsversammlung IPP 2010, ETH Zürich, Switzerland; December 20, 2010.

F. Resnati, The ArDM experiment

Oral presentation at 8th International Workshop on Identification of Dark Matter (IDM 2010), Montpellier, France, July 26-30, 2010; July 30, 2010.

R. Santorelli, ArDM: a Liquid Argon TPC for direct Dark Matter detection

Talk at MultiDark & RENATA joint meeting, LSC Canfranc, Spain, April 13, 2012

### **Invited talks**

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### **Internal notes:**

Studies on the ArDM energy calibration

M. De Prado, B. Montes, L. Romero, R. Santorelli, January 13, 2012

### **Theses and Dissertations:**

Filippo Resnati, "Modeling, design and first operation of the novel double phase LAr LEM-TPC detector", PhD thesis, ETH Zurich (2012). ETH-Diss. No 20550.

Barbara Montes Nuñez, "Monte Carlo studies on the energy calibration of the Argon Dark Matter Experiment", master thesis, CIEMAT - Madrid (2012).