



# CERN

European Organization for Nuclear Research

Organisation Européenne pour la Recherche Nucléaire

## The Library

### Purposes

1. The Organization shall provide for collaboration among European States in nuclear research of a pure scientific and fundamental character, and in research essentially related thereto. The Organization shall have no concern with work for military requirements and the results of its experimental and theoretical work shall be published or otherwise made generally available.



Convention establishing a European Organization for Nuclear Research, 1953

CERN Induction Programme 2017

Tullio Basaglia, RCS-SIS

## The Library's mission:

- Ensuring scientific information produced at CERN is safeguarded and made publicly available.
- Distributing CERN publications (yellow reports, CERN Courier, Particle Data Group publications)
- Providing resources of information in ALL fields of relevance to CERN: physics, IT, mathematics, engineering, management

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## (E)books and proceedings

Title	How mathematicians think : using ambiguity, contradiction, and paradox to create mathematics
	
Author(s)	<a href="#">Byers, William</a>
Imprint	Princeton, NJ, Princeton Univ. Press, 2007. - 415 p.
Price(s)	25.00CHF
	<a href="#">Purchase from CERN Bookshop</a> ← <b>Purchase</b>
Subject category	Mathematical Physics and Mathematics
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LHC / Ginter, Peter  
Baden : Lammerhuber, 2011. - 264 p.  
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## Articles and preprints

Information Discussion (0) Files

**Article**

Report number: [arXiv:1002.4791](#) ; CERN-PH-TH-2010-038

Title: **Dark matter, mu problem and neutrino mass with gauged R-symmetry**

Author(s): [Choi, Ki-Young](#) (Pusan Natl. U.) ; [Chun, Eung Jin](#) (Korea Inst. Advanced Study, Seoul) ; [Lee, Hyun Mi](#) (CERN)

Imprint: 26 Feb 2010

Note: Comments: 22 pages, 8 figures, JHEP style

In: [Phys. Rev. D 82 \(2010\) 105028](#) ← **Publication reference**

Subject category: Particle Physics - Phenomenology

Abstract: We show that the mu problem and the strong CP problem can be resolved in the context of the gauged  $U(1)_R$  symmetry, realizing an automatic Peccei-Quinn symmetry. In this scheme, right-handed neutrinos can be introduced to explain small Majorana or Dirac neutrino mass. The  $U(1)_R$  D-term mediated SUSY breaking, called the  $U(1)_R$  mediation, gives rise to a specific form of the flavor-conserving superpartner masses. For the given solution to the mu problem, electroweak symmetry breaking condition requires the superpartners of the Standard Model at low energy to be much heavier than the gravitino. Thus dark matter candidate can be either gravitino or right-handed sneutrino. In the Majorana neutrino case, only gravitino is a natural dark matter candidate. On the other hand, in the Dirac neutrino case, the right-handed sneutrino can be also a dark matter candidate as it gets mass only from SUSY breaking. We discuss the non-thermal production of our dark matter candidates from the late decay of stau and find that the constraints from the Big Bang Nucleosynthesis can be evaded for a TeV-scale stau mass.

Citations recorded in: [\[Science Citation Index\]](#)

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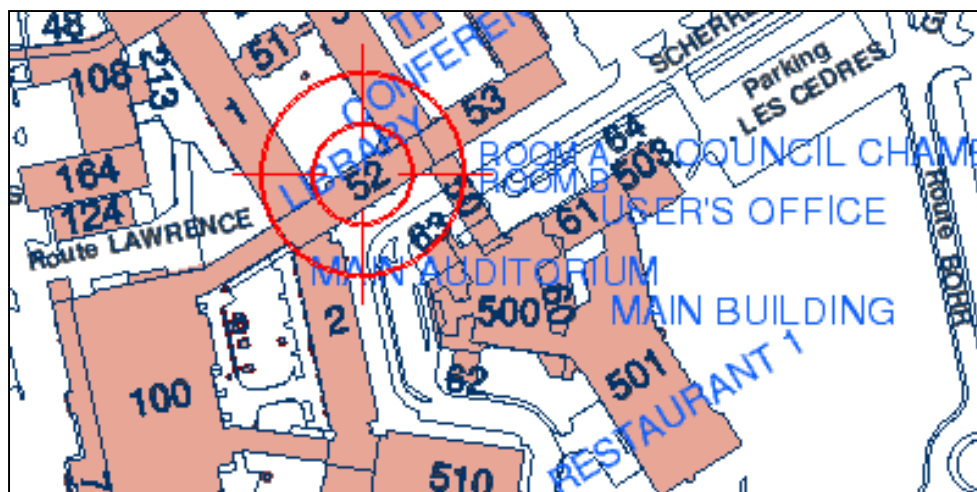
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