Lino Miramonti

July 10, 2019

Elenco pubblicazioni (Su riviste internazionali con referaggio)

[L’Impact Factor è relativo all’anno della pubblicazione]

1. Gamma ray activity of neodymium samples
   C.Arpesella, E.Bellotti, L.Miramonti, P.P.Sverzellati
   [IF = 1.038]

2. Status of the EDELWEISS experiment
   Edelweiss Coll.
   [IF = 5.631]

3. Status of the EDELWEISS experiment
   Edelweiss Coll.
   [IF = 0.964]

4. 320g ionization-heat bolometers design for the EDELWEISS experiment
   X.F.Navick, M.Chapellier, F.Déliot, S.Hervé, L.Miramonti
   [IF = 0.964]

5. Physical Interpretation on the Neganov-Luke and related Effects
   M.Chapellier, G.Chardin, L.Miramonti, X.F.Navick
   [IF = 0.893]

6. High sensitivity quest for Majorana neutrino mass with the BOREXINO Counting Test Facility
   G.Bellini, B.Caccianiqa, M.Chen, F.A.Danevich, M.G.Giammarchi, V.V.Kobychev,
   B.N.Kropivyansky, E.Meroni, L.Miramonti, A.S.Nikolayko, L.Oberwurer, O.A.Ponkratenko,
   S.Yu.Zdesenko, Yu.G.Zdesenko
   [IF = 4.213]

7. Event categories in the EDELWEISS WIMP search experiment
   Edelweiss Coll.
   [IF = 4.213]
8. Background discrimination capabilities of a heat and ionization germanium cryogenic detector
   *Edelweiss Coll.*
   [IF = 4.110]

9. A low energy threshold scintillation detector for X and low gamma rays at the Fréjus underground laboratory
   *L.Miramonti*
   [IF = 0.635]

10. High sensitivity $2\beta$ decay study of $^{116}$Cd and $^{100}$Mo with the BOREXINO Counting Test Facility (CAMEO project)
    [IF = 5.194]

11. First results of the EDELWEISS WIMP search using 320g heat-and-ionization Ge detector
    *Edelweiss Coll.*
    [IF = 4.377]

12. The CAMEO Project: high sensitivity quest for majorana neutrino mass with the Borexino Counting Test Facility
    Particles and Nuclei, Letters. 2001 No 3 [106].
    [IF = 1.100]

13. Measurements of extremely low radioactive levels in Borexino
    *Borexino Coll.*
    [IF = 4.270]

14. Search for electron decay mode $e \rightarrow \gamma \gamma$ with prototype of Borexino detector
    *Borexino Coll.*
    [IF = 4.298]

15. A plastic scintillator detector for beta particles
    *L.Miramonti*
    [IF = 0.974]
16. **Solar neutrino physics: present status and perspectives**

*L. Miramonti, F. Reseghetti*


*IF = 1.565*

17. **Study of nuclear recoil response of NaI(Tl) scintillator detector with a $^{252}$Cf neutron source**

*L. Miramonti*

Radiation Physics and Chemistry Vol. 64/5-6 pp. 337-342 (2002).

*IF = 0.738*

18. **A very low background HPGe detector operating deep underground at 4800 meter water equivalent**

*L. Miramonti*


*IF = 0.768*

19. **The calibration and the monitoring of the Borexino detector**

*L. Miramonti*

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*IF = 2.298*

20. **Study of neutrino electromagnetic properties with prototype of Borexino detector**

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*IF = 4.066*

21. **New limits on nucleon decays into invisible channel with the Borexino Counting Test Facility**

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*IF = 4.066*

22. **A multiplex optical-fiber system for the PMT calibration of the Borexino experiment**


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23. **New experimental limits on heavy neutrino mixing in $^8$B decay obtained with the Borexino Counting Test Facility**

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24. **New experimental limits on violations of the Pauli exclusion principle obtained with the Borexino Counting Test Facility**

*Borexino Coll.*

25. Recent advances in neutrinoless double beta decay search  
   L. Miramonti, F. Reseghetti  
   [IF = 0.292]  

26. Neutrinoless double beta decay: current status and perspectives and the Cameo project  
   L. Miramonti  
   [IF = 0.864]  

27. Search for electron antineutrino interaction with the Borexino Counting Test Facility at Gran Sasso  
   Borexino Coll.  
   [IF = 3.251]  

28. Simultaneous measurement of gamma rays and radon emission (SIMGRAE) for solid samples radioactivity assessment  
   I. D’Angelo, M. Giammarchi, L. Miramonti, R. Scardaoni  
   [IF = 0.915]  

29. CNO and pep neutrino spectroscopy in Borexino: Measurement of the deep underground production of cosmogenic $^{11}$C in organic liquid scintillator  
   Borexino Coll.  
   [IF = 3.327]  

30. Pulse-Shape discrimination with the Counting Test Facility  
   Borexino Coll.  
   [IF = 1.019]  

31. First real time detection of $^7$Be solar neutrinos by Borexino  
   Borexino Coll.  
   [IF = 4.034]  

32. Search for solar axions emitted in the M1-transition of $^7$Li* with Borexino CTF  
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   [IF = 2.805]  

33. Study of phenylxylylethane (PXE) as scintillator for low energy neutrino experiments  
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34. $^7$Be neutron production cross section on $^{12}$C targets
M.G. Giammarchi, M. Laubenstein, J.P. Meulders, L. Miramonti, A. Formicola
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35. Direct Measurement of the $^7$Be Solar Neutrino Flux with 192 Days of Borexino Data
Borexino Coll.
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36. The Borexino detector at the Laboratori Nazionali del Gran Sasso
Borexino Coll.
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37. Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory
Auger Coll.
[IF = 4.136]

38. Limit on the diffuse flux of ultra-high energy tau neutrinos with the surface detector of the Pierre Auger Observatory
Auger Coll.
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39. Atmospheric effects on extensive air showers observed with the Surface Detector of the Pierre Auger Observatory
Auger Coll.
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40. The liquid handling systems for the Borexino solar neutrino detector
Borexino Coll.
[IF = 1.317]

41. Nuclear physics for geo-neutrino studies
Gianni Fiorentini, Aldo Ianni, George Korga, Marcello Lissia, Fabio Mantovani, Lino Miramonti, Lothar Oberauer, Michel Obolensky, Oleg Smirnov and Yury Savorov
[IF = 3.416]
42. Trigger and aperture of the surface detector array of the pierre auger observatory  
_Auger Coll._  
[IF = 1.142]

43. A Study of the Effect of Molecular and Aerosol Conditions on Air Fluorescence Measurements at the Pierre Auger Observatory  
_Auger Coll._  
[IF = 3.808]

44. Measurement of the Depth of Maximum of Extensive Air Showers above $10^{18}$ eV  
_Auger Coll._  
[IF = 7.621]

45. Measurement of the energy spectrum of cosmic rays above $10^{18}$ eV using the Pierre Auger Observatory  
_Auger Coll._  
[IF = 5.255]

46. New experimental limits on the Pauli forbidden transitions in $^{12}$C nuclei obtained with 485 days Borexino data  
_Borexino Coll._  
[IF = 3.416]

47. Observation of geo-neutrinos  
_Borexino Coll._  
[IF = 5.255]

48. The fluorescence detector of the Pierre Auger Observatory  
_Auger Coll._  
[IF = 1.142]

49. Measurement of the solar $^8$B neutrino rate with a liquid scintillator target and $3\,MeV$ energy threshold in the Borexino detector  
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50. Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter  
_Auger Coll._  
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51. The exposure of the hybrid detector of the Pierre Auger Observatory
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   [IF = 3.216]

52. Study of solar and other unknown anti-neutrino fluxes with Borexino at LNGS
   _Borexino Coll._
   [IF = 3.955]

53. The Pierre Auger Observatory Scaler Mode for the Study of Solar Activity Modulation of Galactic Cosmic Rays
   _Auger Coll._
   Journal of Instrumentation (JINST) 6 (2011) P01003.
   [IF = 3.140]

54. Search for First Harmonic Modulation in the Right Ascension Distribution of Cosmic Rays Detected at the Pierre Auger Observatory
   _Auger Coll._
   [IF = 3.216]

55. Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory
   _Auger Coll._
   [IF = 1.207]

56. Search for modulations of the solar Be-7 flux in the next-generation neutrino observatory LENA
   _Michael Wurm, Barbara Caccianiga, Davide D’Angelo, Stefano Davini, Franz von Feilitzsch, Marianne Goger-Neff, Tobias Lachenmaier, Timo Lewke, Paolo Lombardi, Livia Ludhova, Quirin Meindl, Emanuela Meroni, Lino Miramonti, Randolph Mollenberg, Lothar Oberauer, Walter Potzel, Gioacchino Ranucci, Marc Tippmann, and Jurgen Winter._
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57. The scintillator solvent procurement for the Borexino solar neutrino detector
   [IF = 1.207]

58. Muon and cosmogenic neutron detection in Borexino
   _Borexino Coll._
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59. Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory
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60. Precision measurement of the $^7$Be solar neutrino interaction rate in Borexino
   Borexino Coll.
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61. The Lateral Trigger Probability function for UHE Cosmic Rays Showers detected by the Pierre Auger Observatory
   Auger Coll.
   [IF = 3.216]

62. Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory
   Auger Coll.
   [IF = 4.558]

63. Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory
   Auger Coll.
   [IF = 4.777]

64. Absence of a day–night asymmetry in the $^7$Be solar neutrino rate in Borexino
   Borexino Coll.
   [IF = 4.569]

65. The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory
   Auger Coll.
   [IF = 6.036]

66. First evidence of $p+p$ solar neutrinos by direct detection in Borexino
   Borexino Coll.
   [IF = 7.943]

67. Data from the Global Data Assimilation System (GDAS) for the Pierre Auger Observatory
   Auger Coll.
68. The next-generation liquid-scintillator neutrino observatory LENA
   LENA working group.
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69. A search for anisotropy in the arrival directions of ultra high energy cosmic rays
    recorded at the Pierre Auger Observatory
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70. Measurement of the proton-air cross-section at sqrt(s) = 57 TeV with the Pierre
    Auger Observatory
   Auger Coll.
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71. Search for Solar Axions Produced in p(d,\(^3\)He) A Reaction with Borexino Detector
   Borexino Coll.
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72. Cosmic-muon flux and annual modulation in Borexino at 3800 m water-equivalent
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73. Search for point-like sources of ultra-high energy neutrinos at the Pierre Auger
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   [IF = 6.345]

74. Measurement of CNGS muon neutrinos speed with Borexino
   Borexino Coll.
   [IF = 4.569]

75. The Rapid Atmospheric Monitoring System of the Pierre Auger Observatory
   Auger Coll.
   [IF = 1.656]

76. Antennas for the detection of radio emission pulses from cosmic-ray induced air
    showers at the Pierre Auger Observatory
77. Borexino calibrations: Hardware, Methods, and Results
   *Borexino Coll.*
   [IF = 1.656]

78. A Search for Point Sources of EeV Neutrons
   *Auger Coll.*
   [IF = 6.733]

79. Results of a self-triggered prototype system at the Pierre Auger Observatory for
radio-detection of air showers induced by cosmic rays
   *Auger Coll.*
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80. Large scale distribution of arrival directions of cosmic rays detected above $10^{18}$ eV at
the Pierre Auger observatory
   *Auger Coll.*
   [IF = 16.238]

81. Constraints on the origin of cosmic rays above $10^{18}$ eV from large scale anisotropy
searches in data of the Pierre Auger observatory
   *Auger Coll.*
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82. Interpretation of the depths of maximum of extensive air showers measured by the
Pierre Auger Observatory
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83. Solar neutrinos
   V. Antonelli, L. Miramonti, C. Pena-Garay, A. Serenelli
   [IF = 2.624]

84. Ultrahigh Energy Neutrinos at the Pierre Auger Observatory
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85. **Advancements in solar neutrinos physics**  
*Lino Miramonti, Vito Antonelli*  
*[IF = 0.625]*

86. **Measurement of geo–neutrinos from 1353 days of Borexino**  
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*[IF = 6.019]*

87. **SOX: Short distance neutrino oscillations with Borexino**  
*Borexino Coll.*  
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88. **Lifetime measurements of $^{214}$Po and $^{212}$Po in the CTF liquid scintillator detector at LNGS**  
*Borexino Coll.*  
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89. **Cosmogenic Backgrounds in Borexino at 3800 m water-equivalent depth**  
*Borexino Coll.*  
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90. **Bounds on the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory**  
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91. **Techniques for Measuring Aerosols using the Central Laser Facility at the Pierre Auger Observatory**  
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*Borexino Coll.*  
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93. **Identifying Clouds over the Pierre Auger Observatory using IR Satellite Data**  
*Auger Coll.*  
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94. Probing the radio emission from cosmic-ray-induced air showers by polarization measurements
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95. Final results of Borexino Phase-I on low-energy solar neutrino spectroscopy
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99. Reconstruction of inclined air showers detected with the Pierre Auger Observatory
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100. Neutrinos from the primary proton+proton fusion process in the Sun
    Borexino Coll.

101. Muons in air showers at the Pierre Auger Observatory: measurement of atmospheric production depth
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102. Searches for Large-Scale Anisotropy in the Arrival Directions of Cosmic Rays above \(10^{19}\) eV at the Pierre Auger Observatory and the Telescope Array
    Auger Coll. and Telescope Array Coll.

103. Depth of Maximum of Air-Shower Profiles at the Auger Observatory: Measurements at Energies above \(10^{17.8}\) eV
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    Auger Coll.
105. Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events  
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106. Spectroscopy of geoneutrinos from 2056 days of Borexino data  
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107. Test of Electric Charge Conservation with Borexino  
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108. The Pierre Auger Cosmic Ray Observatory  
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109. Search for patterns by combining cosmic ray energy and arrival directions at the Pierre Auger Observatory  
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110. An improved limit to the diffuse flux of ultra-high energy neutrinos from the Pierre Auger Observatory  
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111. Measurement of the cosmic ray spectrum above $4 \cdot 10^{18}$ eV using inclined events detected with the Pierre Auger Observatory  
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113. Large scale distribution of ultra high energy cosmic rays detected at the Pierre Auger Observatory with zenith angles up to 80 degrees  
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114. Azimuthal asymmetry in the risetime of the Surface Detector signals of the Pierre Auger Observatory  
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115. Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory  
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116. Nanosecond-level time synchronization of autonomous radio detector stations using a reference beacon and commercial airplanes  
   *Auger Coll.*  

117. Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array  
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120. Neutrino Physics with JUNO  
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121. Testing hadronic interactions at ultrahigh energies with air showers measured by the Pierre Auger Observatory  
   *Auger Coll.*  

122. Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory  
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123. Evidence for a mixed mass composition at the ”ankle” in the cosmic-ray spectrum  
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124. Measurement of the Muon Production Depths at the Pierre Auger Observatory  
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125. Ultrahigh energy neutrino follow-up of Gravitational Wave events GW150914 and GW151226 with the Pierre Auger Observatory
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126. Search for photons above $10^{18}$ eV with the hybrid detector of the Pierre Auger Observatory
   Auger Coll.

127. Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory
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128. Muon Counting using Silicon Photomultipliers in the AMIGA detector of the Pierre Auger Observatory
   Auger Coll.

129. A targeted search for point sources of EeV photons with the Pierre Auger Observatory
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130. Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory
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131. Low background techniques in liquid scintillators detectors
   L.Miramonti

132. Multi-resolution anisotropy studies of ultra-high energy cosmic rays detected at the Pierre Auger Observatory
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134. Seasonal modulation of the $^7$Be solar neutrino rate in Borexino
   Borexino Coll.
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*ANTARES, IceCube, Auger, LIGO, VIRGO Coll.*  
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140. Calibration of the Logarithmic-Periodic Dipole Antenna (LPDA) Radio Stations at the Pierre Auger Observatory using an Octocopter  
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141. Limiting neutrino magnetic moments with Borexino Phase-II solar neutrino data  
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146. Charge reconstruction in large-area photomultipliers
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147. Lorentz Invariance Violation effects on UHECR propagation: A geometrized approach
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Vito Antonelli, Lino Miramonti, Marco Danilo Claudio Torri
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158. Multi-Messenger Physics with the Pierre Auger Observatory
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159. Probing the origin of ultra-high energy cosmic rays with neutrinos in the EeV energy range at the Pierre Auger Observatory
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160. Limits on point-like sources of ultra-high-energy neutrinos with the Pierre Auger Observatory
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161. Combined sensitivity to the neutrino mass ordering with JUNO and PINGU/IceCube Upgrade
*Juno Coll, and IceCube-Gen2 Coll.*
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Lavori a stampa (Note interne, Reports, Dispense, Articoli Divulgativi ecc.)

1. Misure di basse attività gamma con applicazione al decadimento beta doppio su livelli eccitati del nucleo figlio.

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9. Observation and study of light production inside photomultipliers at low energy

10. Test on PC+PPO 1.5 g/l scintillator excited by a 266 nm and 355 nm laser beam.

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13. **Edelweiss: Expérience pour la détection des WIMPs en site souterrain**

14. **Borexino: a solar neutrino experiment**
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16. **Neutrino. La particella fantasma**

17. **Introduzione alla teoria della misura**

18. **Search of the 478 keV gamma peak in CTF from the deexcitation of $^7$Be induced by cosmic neutrons on carbon during the pseudocumene transportation**

19. **BOREXINO: un rivelatore unico per lo studio dell’oscillazione dei neutrini di bassissima energia**

20. **Analisi degli errori sperimentali di laboratorio**

21. **The northern site of the Pierre Auger Observatory**

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