

REPORT ON JCAP_027P_0507

DATE: OCTOBER 11, 2007

AUTHOR(S): D. AUTIERO, J. AYSTO, A. BADERTSCHER, L. BEZRUKOV, J. BOUCHEZ, A. BUENO, J. BUSTO, J.-E. CAMPAGNE, CH. CAVATA, L. CHAUSSARD, A. DE BELLEFON, Y. DECLAIS, J. DUMARCHEZ, J. EBERT, T. ENQVIST, A. EREDITATO, F. VON FEILITZSCH, P. FILEVIEZ PEREZ, M. GOGER-NEFF, S. GNINENKO, W. GRUBER, C. HAGNER, M. HESS, K. A. HOCHMUTH, J. KISIEL, L. KNECHT, I. KRESLO, V. A. KUDRYAVTSEV, P. KUUSINIEMI, T. LACHENMAIER, M. LAFFRANCHI, B. LEFIEVRE, P. K. LIGHTFOOT, M. LINDNER, J. MAALAMPI, M. MALTONI, A. MARCHIONNI, T. MARRODAN UNDAGOITIA, J. MARTEAU, A. MEREGAGLIA, M. MESSINA, M. MEZZETTO, A. MIRIZZI, L. MOSCA, U. MOSER, A. MULLER, G. NATTERER, L. OBERAUER, P. OTIOUGOVA, T. PATZAK, J. PELTONIEMI, W. POTZEL, C. PISTILLO, G.G. RAFFELT, E. RONDIO, M. ROOS, B. ROSSI, A. RUBBIA, N. SAVVINOV, T. SCHWETZ, J. SOBCZYK, N. J. C. SPOONER, D. STEFAN, A. TONAZZO, W. TRZASKA, J. ULBRICHT, C. VOLPE, J. WINTER, M. WURM, A. ZALEWSKA, R. ZIMMERMANN

TITLE: Large underground, liquid based detectors for astro-particle physics in

RECEIVED: 2007-05-23 10:40:39.0

Title: Large underground, liquid based detectors for astro-particle physics in Europe: scientific case and prospects

Authors: D. Autiero et al.

The referee evaluates that the paper is essentially ready for publication. The referee, however, finds the following final comments. The paper should be published after the final improvements. The referee thinks that it is no longer necessary to review the final draft.

1)Page 12, middle: The authors improved the sentence, Thanks to the clean photon identification and separation from pi-0, it is expected., which

constitute an improvement of 35 percent and 92 percent, respectively compared to Super-Kamiokande result. However, the referee does not find any publication from Super-Kamiokande on these proton decay modes. The referee understands that the authors actually referred the efficiencies from G.Blewitt et al., PRL 55, 2114 (1985). However this is the paper from the IMB collaboration. The authors should write so and should refer the proper paper(s).

2)Page 29 Table 10 and its explanation in the text: The author added a description for the statistical method they used. However, the referee does not understand how the first procedure (P-a) is used in the final calculation of the probability (P-b). The definition for the final probability used in Table 10 (P-b) looks like independent of P-a.

End of the Referee report.