

Name = Miriam  
Surname = Giorgini  
Nationality = Italian  
Institution = Bologna University and INFN  
Address = Viale Berti Pichat 6/2  
Town = I-40127 Bologna  
Country = Italy  
e-mail = miriam.giorgini@bo.infn.it  
Abstract = Author: M. Giorgini

This paper has not already discussed with the Organizer of the Session.

Title: SEARCH FOR A POSSIBLE SPONTANEOUS EMISSION OF MUONS FROM HEAVY NUCLEI

Abstract: The spontaneous emission of muons from heavy nuclei has been predicted during the 80's; the experimental searches yielded only poor upper limits. We propose to search for this kind of exotic natural radioactivity in lead nuclei, using nuclear emulsion sheets as detector. We discuss the experimental set-up of a test performed at the Gran Sasso National Laboratory (Italy), the event simulation, data analysis and the preliminary results.