

Interactive comment on “Design and operation of a field telescope for cosmic ray geophysical tomography” by N. Lesparre et al.

Anonymous Referee #2

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In this paper, the Authors deals with the cosmic ray muon tomography to be used as a tool to study the density structure of geological targets. They describe a muon telescope adapted to extreme environmental conditions. They take into account, in particular, the design optimization to improve the autonomy of the detector. A detailed description of the muon telescopes is given discussing the components and the assembled tools as the two scintillator detection matrices and their interfaces with the photosensors via optical fibres. The Authors discuss two photosensor options and finally present a first data set acquired in open-sky conditions. The paper is self-consistent and sounds interesting from the point of view of applications. This research could give new perspectives in the use of muons for tomography. As minor revision, the data analysis could be improved discussing also the possible applications to different con-

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ditions with respect to the open sky one. After this improvement, the paper is suitable for publication.

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., 1, 47, 2011.

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