

## ***Interactive comment on “CCC-based muon telescope for examination of natural caves” by L. Oláh et al.***

### **Anonymous Referee #1**

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The paper is interesting and describes clearly the technical characteristics of a portable cosmic muon detector for geophysical applications. Its performances, evaluated in several tests made in laboratory and in some caves, are exhaustively reported and discussed with some details.

The paper should be published without important corrections. I suggest some stylistic/linguistic improvements only.

Pag. 782 Line 2 : application → applications Line 18 : flux correlates with → measured flux depends on Line 20 : are recording the quantity- → record the number Line 21 : remove also Line 22 : specially developed → it has been specially developed Line 23 : emphasize → emphasis Line 23 : are providing → provide

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Pag. 783 Line 16 : The next place → Another place where Line 21 : remove was

Pag 784 Line 11 : on → in Line 11 : two dimensional → two-dimensional Line 23 : remove which is able Line 25 : applied → designed/used

Pag 785 Line 1 : reserve → preserve Line 1 : based on → according to Line 7 : and the → and of the Line 8 : The sentence starting with "The PIC32..." is not completely clear. What does it mean? Maybe "The PIC32 device, whose performance is totally suitable for the tomographic environment, works at 80 MHz."? or "The PIC32 device works at 80 MHz and its performance is totally suitable for the tomographic environment."? Line 9 : I do not understand which is the "well defined application" Line 11 : decreases → reduces Line 14 : for → to Line 15 : could store → stored Line 15 : which enables → corresponding to Line 21 : are supplying → supply Line 28: muontomograph → Muontomograph

Pag 786 Line 1 : subunits → subunits, Line 4 : highlighted → described Line 4: Sect. 1?? the tests are not described in sect. 1 but in Sect. 4.1-4.3. Line 18: Hungary → Hungary, Line 18 : the lack → lack

Page 787 Line 6: Mountomograph → Muontomograph Line 10: statistic → statistics

Page 788 Line 6 : better "is about 1000 m long" Line 7: on Fig. 6 → in Fig. 6 Line 11 : All together → Totally Line 13 : on Fig. 7 → in Fig. 7 Line 14 : present → represent Line 23 : conclude, → conclude Line 24 : On Fig. 8 → In Fig. 8 Pag 789 Line 10: are potential threats → represents a potential threat Page 790 Line 4: with → thanks to

Also a check on the verbs should be done to be sure that tenses are coherent.

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