

Interactive comment on “Overview of Main Radiation Transport Codes” by Nikolaos Schetakis et al.

Anonymous Referee #2

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The authors present a review report of the most frequently used radiation codes for calculations performed by the main space agencies and institutes. They particularly focus on their application to Mars surface environment. These codes are classified into two different categories and compared one to another.

An added value of the manuscript is that it addresses the very interesting issue of radiation codes in the environment of advanced cloud computing technology. Likewise, I must emphasize that the bibliography on which the article is based is adequately adjusted to the scientific content of the paper.

I therefore consider that the topic is relevant and appropriate for publication in Geoscientific Instrumentation, Methods and Data Systems, and, consequently, that the paper could be accepted after a few minor comments and the correction of some errata that

C1

would help to improve the manuscript:

- Line 22. What is CAT named after? Please, consider writing its full name the first time you mention it in the manuscript. Acronyms should be extended with their full names the first time they are cited in the body of the text.
- Lines 84-85. Note that this sentence seems to be either incomplete or to have extra words. Please check and correct it
- Lines 102-104. Here a very long sentence is written. The manuscript will benefit from an easier-to-understand version of the sentence, perhaps splitting it into 2-3 sentences in order to help the reader understand it
- Line 107. Missing "n" in word "many".
- Line 130. I would recommend to mention the full name of JAEA, RIST and KEK before using these acronyms.
- Line 199. Please write inside the round brackets only the year.
- Lines 240-244. I find advisable to slightly extend this part of the manuscript.
- Lines 252-253. Please check the grammar tense in this sentence.

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https://doi.org/10.5194/gi-2020-7, 2020.

C2