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GID

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Interactive Comment

## *Interactive comment on* "Geo-neutrinos" *by* L. Ludhova

## Anonymous Referee #1

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The well-written introduction is very helpful and informative for both physicists and geologists to understand the story. There are several minor comments to be incorporated easily. P.543 line 22: 10<sup>-45</sup> is better to be 10<sup>-44</sup>. If it intend to describe anti-neutrino cross section 10<sup>-43</sup> is even better. P.544 line 5: Solar neutrino flux is more closer to 10<sup>11</sup> and energy extends up to 15 MeV (B8) or 19 MeV (hep). P.545 line 8: theta\_13 is measured precisely and the two flavor approximation seems to be irrelevant in this manuscript. The number 0.009 appears unclearly. Just dropping this sentence will make it more readable. P.545 line 15: in equation (3), 8e- should be 6e-. P.547 line 14: in equation (6), 0.782 MeV will be 0.784 MeV (=1.806-2x0.511). P.548 bottom: KamLAND is located around a boundary of continental and oceanic crusts. P.556: Reference should be the original paper, K.Eguchi et al., Phys.Rev.Lett.90, 021802 (2003)

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., 2, 539, 2012.

