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Tomography of the Earth by geo-neutrino emission

We propose a method of inference to resolve the Earth's internal distribution of heat producing elements, known sources of geo-neutrinos. It incorporates experimental information given by multiple detectors around the globe via the Bayes' Theorem and uses a multigrid approach to iteratively reconstruct the Earth. We present some test results of the algorithm and questions we would like to answer in the near future using the proposed method.

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