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**What can geo-neutrinos tell us about the Earth?**

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The principal source of energy for dynamic processes of the earth, such as plate tectonics, is thought to come from the radioactive decays of  $^{238}\text{U}$ ,  $^{232}\text{Th}$ , and  $^{40}\text{K}$  within the earth. These decays produce electron-antineutrinos, so-called geo-neutrinos, the measurement of which near the earth's surface allows for a direct measure of the total radiogenic heat generation in the earth. The KamLAND and Borexino experiments have both recently measured a geo-neutrino flux significantly greater than zero. I will discuss how these and future measurements can constrain our knowledge of the earth.