

Earth thermal flux in the light of geoneutrinos

Tuesday, 23 October 2018 10:45 (15)

The Earth thermal flux value lays in wide region from 50 up to 250 TW according to number of estimations. Upper limit could be achieved only if potassium abundance in the Earth exceeds 2%. In Borexino data the valley between beryllium neutrinos and ^{11}C spectrum is filled with betas from ^{210}Bi . But it also contains CNO neutrinos. CNO cycle in the Sun could be depressed according to last researches. This means that part of CNO spectrum could be from terrestrial 40K antineutrinos because their spectra are very similar.

Primary author(s) : Dr. SINEV, Valery (INR RAS)

Presenter(s) : Dr. SINEV, Valery (INR RAS)

Session Classification : Particle Physics: Neutrino Physics

Track Classification : Particle physics: neutrino physics