



Contribution ID : 655

Type : Oral talk

What can the CNO neutrinos flux measurement by Borexino say about ^{40}K geoneutrino flux?

Friday, 9 October 2020 11:30 (15)

Borexino collaboration announced at Neutrino 2020 the observation of CNO neutrinos from the Sun. The value of the flux is appeared higher than predicted by the Standard Solar Model. This could be interpreted as observation of an additional neutrino source in the same energy region. One of possible sources is ^{40}K antineutrino flux. The value of additional source can claim the potassium abundance in the Earth on the level of 1-1.5% in mass.

Primary author(s) : SINEV, Valery (Institute for Nuclear Research RAS); Dr. BEZRUKOV, Leonid (INR RAS); Dr. KARPIKOV, Ivan (INR RAS); Dr. MEZHOKH, Andrey (INR RAS); Ms. SILAEVA, Svetlana (INR RAS); Ms. KURLOVICH, Alexandra (INR RAS); Dr. ZAVARZINA, Valentina (INR RAS)

Presenter(s) : SINEV, Valery (Institute for Nuclear Research RAS)

Session Classification : Neutrino Physics

Track Classification : Neutrino physics