NAME: Alessandro Mirizzi

Email: amirizzi@mppmu.mpg.de

AFFILIATION: Max-Planck-Institut für Physik, Germany

TITLE: Low energy solar axion flux

## ABSTRACT:

We present a first estimate of solar axion flux at energy  $E \setminus 100$  eV, considering both Primakoff production both axion-photon conversion in large scale solar B-field. We find that if an enhancement of the axion-photon coupling would happen in outer layers of the Sun, as motivated by PVLAS-inspired models, an observable low energy flux could be observable. Its detection would show signatures of PVLAS axion-like particle, and would probe some of these nonstandard scenarios.