

Contribution ID: 19

Type: Oral presentation

The search for axion dark matter with a dielectric haloscope: MADMAX

Thursday, 1 September 2022 11:00 (30 minutes)

The QCD Axion is arguably the most elegant candidate to solve the strong CP problem and to explain missing dark matter in our universe. Some compelling theoretical models predict its mass to be around 100 μ eV, a range that presently still evades experimental sensitivity. The dielectric haloscope concept has been proposed to change this. The motivation for post-inflationary dark matter axions with mass around 100 μ eV will be discussed and the basic concepts of a dielectric haloscope will be discussed on the basis of the MADMAX experiment.

Scientific topic

Future Facilities

Primary author: MAJOROVITS, Bela (MPI for Physics)

Presenters: MAJOROVITS, Bela (MPI for Physics); MAJOROVITS, Bela Alexander (Max Planck Society (DE))

Session Classification: Fundamental interactions