

Neutrons:

Yasuhiro Masuda:

Here is the information which you request.

Search for nEDM using UCN and ^{129}Xe comagnetometer

Yasuhiro Masuda, yasuhiro.masuda@kek.jp

Collaborating partners: KEK, RCNP, Osaka, TRIUMF, Winnipeg

Website: fnp.kek.jp

Link to a recent talk: It will be soon uploaded to ISINN20 webpage.

Specific features (some keywords): Spallation UCN source of He-II, ^{129}Xe comagnetometer, Spherical coil.

Major challenges (some keywords): High power cryostat. Horizontal UCN extraction from He-II through a cryogenic window combined with a superconducting coil. Precision measurement of magnetic field gradient.

Schedule, aimed at sensitivity and timeline for results:

10^{-27} e cm from 2013 to 2015

10^{-28} e cm from 2015~

Yasuhiro Masuda
Institute of Particle and Nuclear Studies
KEK
E-mail: yasuhiro.masuda@kek.jp
81 29 864 5617
