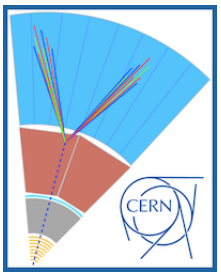

Contribution ID: **19** Type: **not specified**

Status of SUB-Millicharge ExperimenT (SUBMET)

Wednesday 2 November 2022 14:50 (25 minutes)

SUB-Millicharge ExperimenT (SUBMET) sensitive to low-mass millicharged particles produced at the 30 GeV proton fixed-target collisions at J-PARC has been proposed. The detector is composed of long scintillators that allow the particles with a small electric charge to produce photons by ionization energy loss. With the number of protons on target of 5×10^{21}, the experiment is sensitive to particles with electric charge $6 \times 10^{-5} e$ for mass less than 0.2 $\mathrm{GeV/c^2}$ and $1.0 \times 10^{-3} e$ for mass less than 1.6 $\mathrm{GeV/c^2}$. The status of this experiment will be discussed in this talk.

Primary author: CHUNG, Seokju (Korea University)

Presenter: CHUNG, Seokju (Korea University)

Session Classification: New results and LLPs around the globe