Contribution ID: **28** Type: **Talk**

Cherenkov light imaging detectors in current particle and nuclear physics experiments

Monday, September 15, 2025 8:55 AM (30 minutes)

Cherenkov radiation has characteristics that enable us to measure the velocity of the parent charged particle by means of the number of photons, the specific polar angle of the photon emission, and the timing of the photon detection. The precision of the velocity measurement depends on how well such information can be exploited. In fact, innovative developments of radiators, photosensors and readout electronics led to the excellent Cherenkov light imaging detectors working at ongoing experiments. In this review talk, such developments of the detector components will be digested, and the performance of the detectors will be summarized.

Author: MATSUOKA, Kodai (IPNS, KEK)

Presenter: MATSUOKA, Kodai (IPNS, KEK)

Session Classification: Cherenkov light imaging in current particle and nuclear physics experiments

Track Classification: Cherenkov light imaging in current particle and nuclear physics experiments