The 7th international conference on particle physics and astrophysics



Contribution ID : 182

Type : Oral talk

Comparative study of wavelength shifters for scintillation tile readout

Friday, 25 October 2024 17:55 (10)

Tile scintillators are the wide used technology in HEP experiments. The technology implies wavelength shifters (WLS) to collect light from a tile and guide it toward a photomultiplier and provides homogeneous readout from tiles with low dependence on tile shape and size. For this purpose, WLSs must provide appropriate light transportation along with good light trapping efficiency and time performance. Here we present results of comparative study of light collection and losses for four WLSs: Kyrarai Y11, Saint Gobain BCF-92, and two WLS of Tver works.

Primary author(s) : DUBININ, Filipp (LPI RAS); TETERIN, Peter (National Research Nuclear University "MEPhI"); ZAKHAROV, Arseny; DUROV, Andrey (Ilyich); ZHURKINA, Nastya; MANAKONOV, Alexey (NRNU MEPhI); LEVKOV, Anatoly (NRNU MEPhI); SNYTKO, Leonid (NRNU MEPhI)

Presenter(s): DUBININ, Filipp (LPI RAS)

Session Classification : Facilities and advanced detector technologies

Track Classification : Facilities and advanced detector technologies