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Comparative study of wavelength shifters for scintillation tile readout

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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.

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