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TOP counter prototype R&D

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We have been developing a Cherenkov ring-imaging counter, named TOP counter, as a particle identification device of Belle-II detector for super B-factory at KEK. In this presentation, we show the R&D status of TOP counter prototype development. We have performed the beam test using 2m long quartz radiator and MCP-PMTs, and evaluated the number of detected photons, time resolution and chromatic effects.

We develop the square-shape MCP-PMT with Hamamatsu photonics, to obtain the enough lifetime under the Belle-II environment. We improved the lifetime of the quantum efficiency by changing the internal structure and production process.

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plenary

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