

11th International Workshop on Ring Imaging Cherenkov Detectors (RICH2022)



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Determination of bunch-crossing time at Belle II with TOP counter

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At the Belle II experiment a Time-of-Propagation (TOP) counter is used for particle identification in the barrel region. This novel type of particle identification device combines the Cherenkov ring imaging technique with the time-of-flight and therefore it relies on a precise knowledge of the time of collision in each triggered event. We will present a maximum likelihood based method which we have developed at Belle II for the determination of event collision time from the measured data.

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Session Classification: Pattern Recognition and data analysis

Track Classification: Pattern recognition and data analysis