



Contribution ID: 29

Type: Oral presentation using Zoom

## Particle identification with time-of-flight

*Thursday, 28 October 2021 16:42 (24 minutes)*

A particle identification is an essential tool for precision measurements at the ILC. Recent development of the fast-timing Si sensors with a time resolution below 100 ps gives a possibility for the  $\pi^\pm$ ,  $K^\pm$ ,  $p$  separation using time-of-flight measurements. In our study we use ILD as an example to test different potential placements of the fast-timing Si sensors for instance in the SET and inner ECal layers simulating possible time resolution scenarios. In this talk we present latest results on the performance of the time-of-flight particle identification.

### 1st preferred time slot for your oral presentation

19:00-21:00 JST (12:00-14:00 CEST, 6:00-8:00 EDT, 3:00-5:00 PDT)

### 2nd preferred time slot for your oral presentation

15:30-17:30 JST (8:30-10:30 CEST, 2:30-4:30 EDT, 23:30-1:30 PDT)

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**Session Classification:** A&B: Software/Computing & Calorimeters

**Track Classification:** Parallel sessions: Detectors: Session A: Software / Computing