



Contribution ID: 77

Type: **Oral presentation using Zoom**

Test-beam studies of the monolithic CMOS silicon sensor CLICTD

Thursday, 28 October 2021 15:50 (20 minutes)

The CLIC Tracker Detector (CLICTD) is a monolithic CMOS silicon pixel sensor that targets the requirements for the tracking detector of the Compact Linear Collider (CLIC). CLICTD is characterised by a small collection diode that allows for a low sensor capacitance and consequently a high signal-to-noise ratio. The front-end design features an innovative sub-pixel segmentation scheme to reduce the digital footprint while maintaining a small sub-pixel pitch of 30 μm x 37.5 μm . In this contribution, recent test-beam results for CLICTD samples featuring different starting materials and sensor thicknesses are presented.

1st 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)

2nd 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)

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Session Classification: C-1: Tracking detectors

Track Classification: Parallel sessions: Detectors: Session C: Tracking detectors