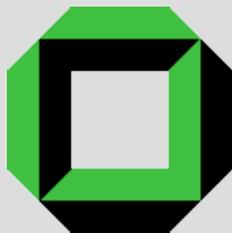


Studies of Silicon Forward Tracking Efficiency

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Status :

- efficiency for forward-tracks using KalSiliconStandalone-Strategy is low
- Phoenix-Electrons find more tracks
- ISL information is now available
 - ⇒ opportunity to investigate

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How to check :

- run normal ProductionExe from release 5.2.0
- use a selection of events with identified Phoenix-Electrons in $Z \rightarrow ee$
(from Beate : zee-phx-nosi.dst)
- select the hits of the best track of each Phoenix-Electron
- run KalSiliconStandaloneTracker with them
- select findable tracks
- compare the numbers

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Tracks

All	Possible	Nominate	Candidate	Found
275	197	157	91	68
%	0.72	0.57	0.33	0.25

Standalonetracking : 0.75

2 Hit3D	Noimate	Candidate	Found
102	73	28	23
			0.82

possible : $\min(5 \text{ hits} \ \& \ 2 \text{ hits3D} \ \& \ \text{vertex})$

nominate : cut1 on z, pt

candidate : in tracking after cut2 on z, pt