



Physics Slam

Erica Brondolin
On behalf of CMS collaboration

EPS-HEP 2015, Vienna



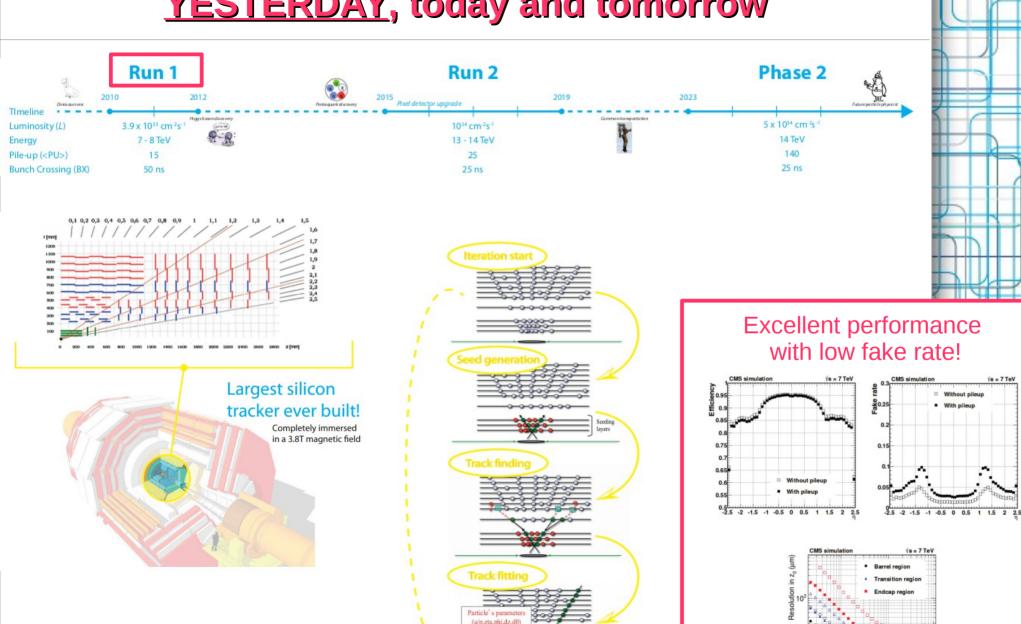


All you want to know about CMSTrackingChallengesYesterday,TodayAndTomorrow in three minutes (and three slides!)

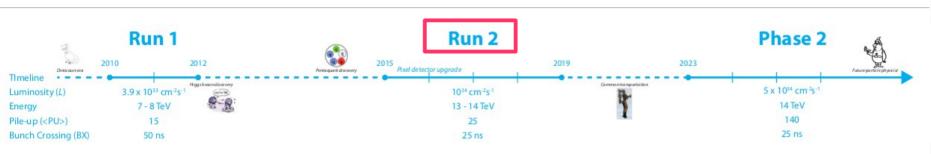
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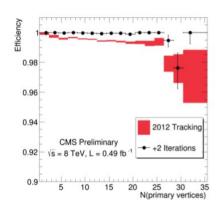
CMS tracking challenges YESTERDAY, today and tomorrow



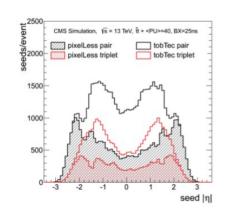
CMS tracking challenges yesterday, <u>TODAY</u> and tomorrow



Tracking iteration philosophy is extremely powerful!!



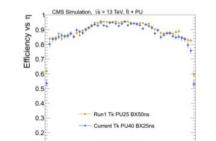
Two new muon iterations:
OUT-IN & IN-OUT.
Recover inefficiency for muons
for high number of vertices!



New triplet-based algorithm for strip seeding only.
Reject half of the fake seeds!

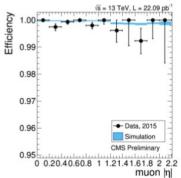
... and much more developments!

In Run2 CMS will be able to maintain the high tracking performance shown in Run1!



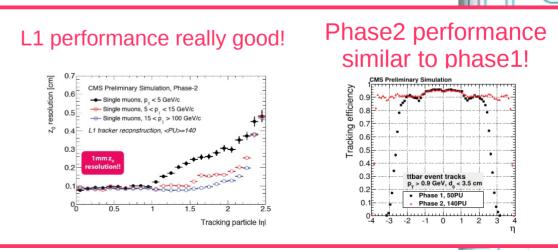
Sim p_>0.9 GeV, V_<30 cm, V_<3.5 cm

-2.5 -2 -1.5 -1 -0.5 0 0.5



CMS tracking challenges yesterday, today and TOMORROW





Fail





Thank you for the attention!

Good Tracking!

