



AT9900130

Thursday

26 February

Thu 9.50

The CMS barrel silicon tracker

D. Bisello^a for the CMS silicon tracker collaboration

^a*University of Padova, Padova, Italy*

The final design for the barrel silicon tracker of the CMS experiment will be presented. Major challenges on the mechanics, cooling, and radiation hardened silicon detector choice will be outlined. Overall performances in terms of expected occupancy, material budget, momentum resolution, pattern recognition and impact parameter resolution will be addressed.