Contribution ID: **9** Type: **not specified**

THE COLLIMATOR SURVEY TRAIN

Tuesday 14 September 2010 11:10 (20 minutes)

Prompt radiation created during the beam cleaning process of the LHC will lead to highly activated beam line components in the cleaning insertions. The ALARA principle (As Low As Reasonable Achievable) is restricting the intervention time in these areas to an absolute minimum and conventional alignment methods will clearly exceed the limits. Based on the inspection train TIM (Train Inspection Monorail) the survey section has developed a dedicated train module allowing remote controlled alignment measurements of the radioactive components by means of digital close range photogrammetry and stretched wire measurements. The prototype is completed and the tests in the LHC mock-up are showing the first results. This paper will focus on the concept, development and the first results of this remote measurement system.

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Session Classification: D2, S2, Instrumentation, software and methods

Track Classification: instrumentation, software and methods