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Inner Detector Tracking Performance

Introduction

"Inner Detector Tracking Performance" is a "forum" for bringing together various groups:

- ID Software
- Physics and Combined Working Groups
- Validation, ID Alignment and Calibration, Data Prep, etc

The aim is to

- understand,
- monitor and
- improve the ID performance.

Communication

See ID Tracking Performance [↗](#) HyperNews forum.

Meetings

- 7 June 2007 [↗](#) Trigger-Physics Week.

First Meeting: to understand: "What is going on, what is needed and how do we move forwards?"

Inner Detector Tracking Performance - for

- Complete paper ~250 pages (resp Daniel Froidevaux)
- ID TrackPerf ~6 pages (resp Markus Elsing & Stephen Haywood)
- ID Alignment ~3 pages (resp Jochen Schieck)
- Inner Detector (detector, not performance) (resp Allan Clark)

Timetable

1. Informal Meeting [☞](#) of Contributors
2. First Draft of Performance sections to be reviewed by Physisc Coordination 5 Sep
3. Complete Paper ready for review mid-Oct
4. Publish early Dec

Some random comments:

- Use CSC Datasets and Rel 12.0.6 (or later).
- Parametrise resolutions as $A \pm B/pT$ (and tabulate in b/u doc).
- Publications Committee [☞](#) for Root Macro.
- Cuts from ID TDR

Contacts

Main groups:

- InDet Software Organisation
- Combined Performance WGs
- Physics Validation

Contacts:

- ID Software - Markus Elsing
 - ◆ Vertex Reconstruction - see InDet Software Organisation, Seog Oh, Chiho Wang, ByeongRok Ko
- Common tracking - Wolfgang Liebig
- Trigger
 - ◆ TAPM - John Baines
- ID Alignment and Calibration - Jochen Schiek, Salva Marti
- Validation (RTT) - Wouter Verkerke (ATLAS wide), Wolfgang Liebig, Tim Adye
 - ◆ InDet RTT - Andrei Gaponenko, Lauren Tompkins, Sven Vahsen, Seth Zenz,
- Data Preparation - Claude Guyot (ATLAS-wide)
 - ◆ Data Quality - Rob McPherson (ATLAS-wide)
 - ◆ InDet Commissioning - Maria Costa
- Combined Working Groups
 - ◆ E-gamma - Daniel Froidevaux, Dirk Zerwas
 - ◇ Conversions - Grant Gorfine
 - ◇ Bremsstrahlung - Tom Atkinson, Vato Karteshvili
 - ◆ Flavour-tagging - Laurent Vacavant
 - ◆ Taus - Donatella Cavalli, Elzbieta Richter-Was
- Physics - Ian Hinchliffe
 - ◆ Minimum Bias (low momentum) - Craig Buttar, Michael Leyton, Arthur Moraes, Ian Dawson, Andi Salzburger, Dan Clemens, Peter Steinberg
 - ◆ B-physics - John Baines, Maria Smizanska
 - ◆ Heavy Ions - Laurent Rosselet, Brian Cole

Important Links

- InDet Software
- Physics Validation
- Run-time Tester (RTT) [↗](#) and InDet RTT (out of date?)
- ID Combined Testbeam and performance
- Data Preparation

Talks and Papers

- [Andi Salzberger](#) - ATLAS Week, Glasgow, Jul 07.
-

Major updates:

-- [StephenHaywood](#) - 16 Apr 2007

%RESPONSIBLE% [StephenHaywood](#)

%REVIEW% [StephenHaywood](#) - 11 Jun 2007

This topic: [AtlasArchive](#) > [InDetTrackingPerformance](#)

Topic revision: r1 - 2007-08-01 - [StephenHaywood](#)



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