



EUDET JRA2

Annual Meeting Munchen
18-20 October 2006

Jan Timmermans

NIKHEF

JRA2 activities

- Large TPC prototype (“TPC”) **Ties Behnke**
 - low mass field cage (to fit in JRA1 magnet)
 - modular endplate system for large GEM and MICROMEAS systems
 - development prototype electronics for GEM and MICROMEAS

DESY, CERN, Univ. Hamburg, Lund, Rostock

- Silicon TPC readout (“SITPC”) **Jan Timmermans**
 - development MediPix → TimePix chip
 - development diagnostic endplate module incl. DAQ

Bonn, CEA Saclay, CERN, Freiburg, NIKHEF

Both of these connected to LCTPC collaboration

JRA2 activities

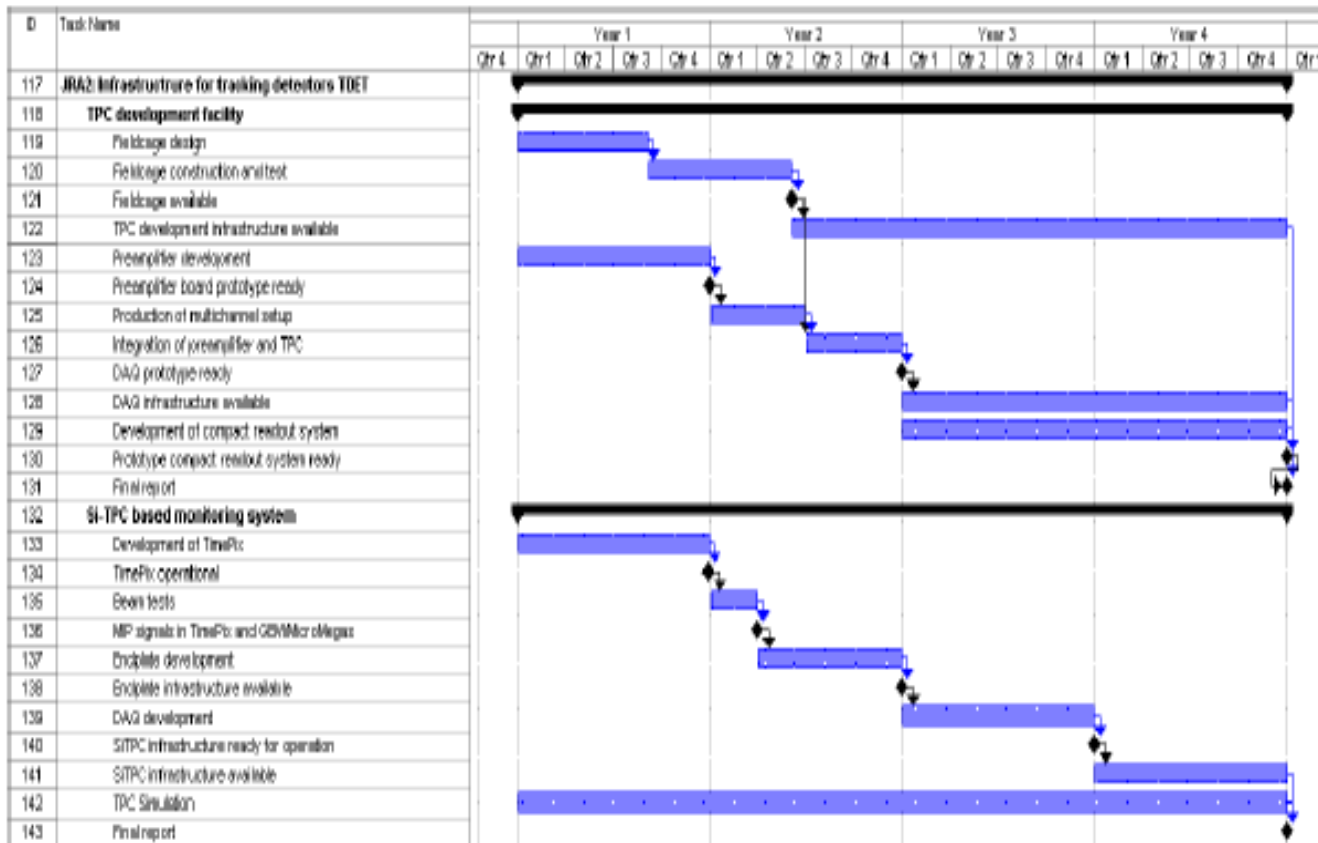
- Silicon tracking (“SITRA”) *Aurore Savoy-Navarro*
 - large/light mechanical structure for Si strip detectors
 - cooling and alignment system prototypes
 - multiplexed deep submicron FE electronics

*CNRS/LPNHE, HIP (Helsinki), CU Prague,
IFIC-CSIC (Santander)*

Connected to SiLC collaboration

*JRA2 Associates: BINP Novosibirsk, CNM-IMB Barcelona,
IFIC Valencia, KEK, MSU Moscow, OSU Obninsk,
RWTH Aachen, Bucarest*

What we said we will do (milestones and deliverables)



Fieldcage available

Preamp proto

DAQ

Compact R.O.

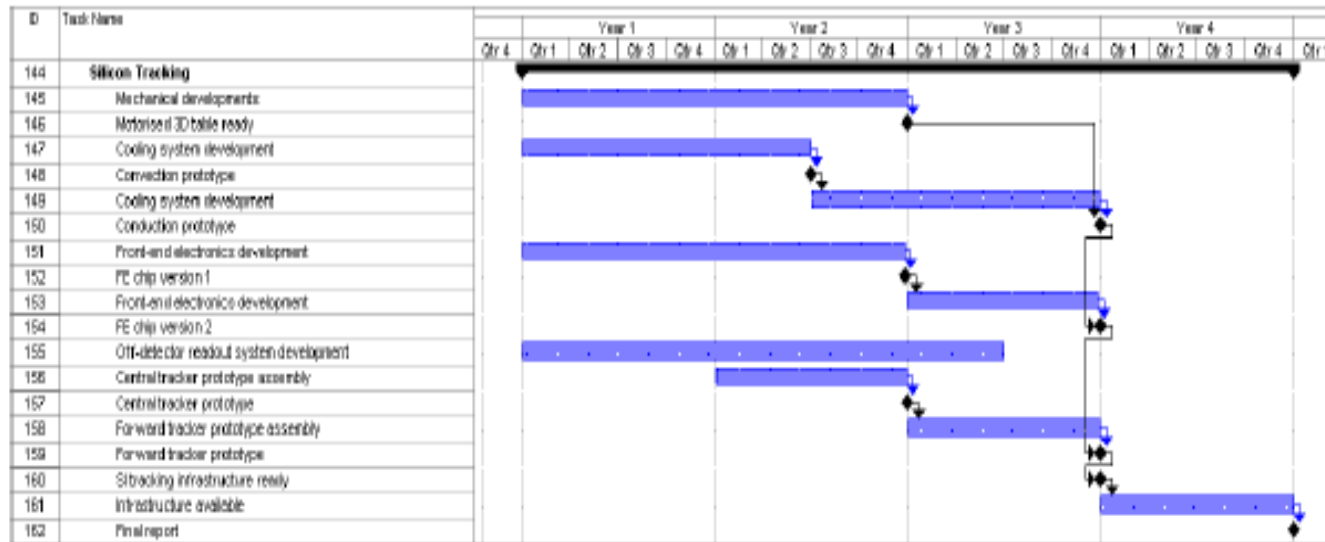
TimePix 1st version



Endplate structure

+DAQ

What we said we will do (milestones and deliverables)



Mechanics dev.

Cooling (convection+
conduction)

FE chip dev.

Central tracker proto
Forward tracker proto

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