

# Planning for the Demonstrator

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JRA1 Meeting  
25 January 2007/Genève

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# JRA1 Milestones Oct06

<b>#</b>	<b>Name</b>	<b>Date</b>	<b>Partner</b>	<b>Description/Remarks</b>
1	TLU	18 Oct 06	Bristol	TLU working. Ship to Geneva.
2	DAQ0	18 Oct 06	Geneva	Bonn+Strasbourg DAQ + TLU work together.
3	FE0	15 Jan 06	DESY	15 Populated FE board sets with sensors (limited tests) available. Ship to Ferrara, Geneva, Strasbourg.
4	EUDRB0	15 Jan 06	Ferrara	EUDRB board partial functionality. Ship to Geneva
5	DAQ1	5 Mar 06	Geneva	DAQ partially integrated with EUDRB
6	EUDRB1	5 Mar 06	Ferrara	EUDRB board tested with FE board set and sensor (no sparsification). Ship 1 full set to Geneva.
7	FE1	5 Mar 06	Strasbourg, Geneva, Ferrara, DESY	FE board sets fully qualified
8	EUDRB2	2 Apr 06	Ferrara	2 EUDRB boards synchronized. Ship 1 set to Geneva.
9	DAQ2	30 Apr 06	Geneva	DAQ fully integrated with two full FE board sets + EUDRB
10	TB0	30 Apr 06	DESY	Mechanics and TB infrastructure ready for integration
11	DEMO0	2 Jul 06	DESY	Demonstrator available

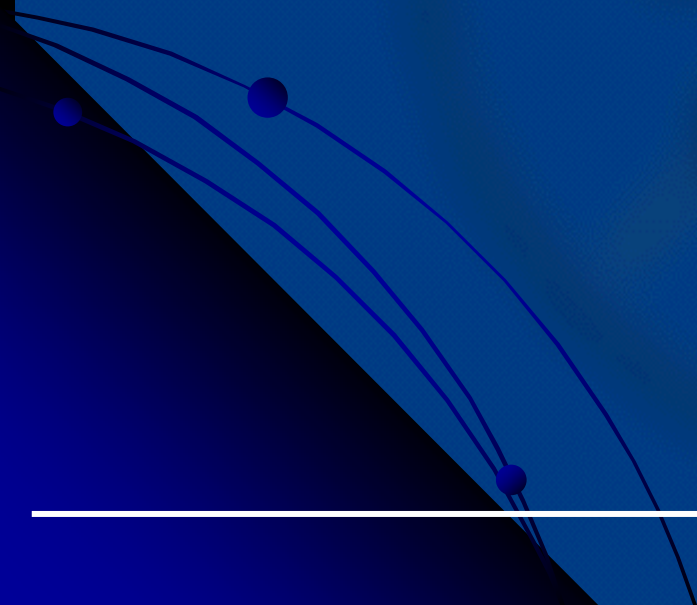
# Tasks for this Meeting

- Review Progress
- Update the milestones
- Discuss commissioning of the demonstrator
  - Telescope
  - DUTs
- Discuss what we aim for in the final telescope

# General Remarks

- Good progress
  - Initially
  - Currently in a critical phase
  - Keep the momentum going
- Documentation
  - Poor! Write up your stuff in memos
  - Commend Daniel!!!!

# Remarks/Questions for Discussion



# Demonstrator Sensors

- What do we know about existing MIMOTel?
  - Fe55 spectrum
  - Double-peak structure in MIMO\*3L, 20 vs 14 um
  - Yield
- PCBs
  - When will the 15 sets from DESY be avail.
  - How many should be populated with sensors?
  - Who needs them when?
  - More needed? When?
- Milestone FE1 will slip!!!

# EUDRB

- Ready for first integration with DAQ?
  - Integration week in FE, when?
  - Changes for MIMO\*2 -> MIMOTEL (EUDRB/DAQ)
- 5 March Milestone (EUDRB1)
  - Realistic?

# DAQ

- Missing pieces
  - Event class => consider LCIO format?
  - Monitor/Logger
- Integration with EUDRB
  - When?



# HW and Integration

- Milestones 8-10 (EUDRB2, DAQ2, TB0, DEMO0)
- First integration with beam:
  - Assemble at DESY and look for signals in the DESY beam
  - Precision work at CERN
    - 1 week parasitic + 1 week dedicated @ SPS
    - Arguments:
      - Avoid the MS
      - Rate

# DUT Integration

- Mechanical Interface
- DAQ Interface
  - SW level (producer task)
  - Trigger level (TLU)
- When and How?
- What is needed

# Final Chips

- Discriminator vs ADC
  - Integrated ADCs would not be available in time?
  - Where will this device be used
    - What precision?
    - What rate?