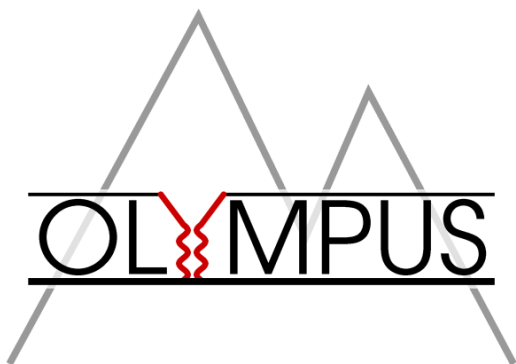




Symmetric Møller/Bhabha Luminosity Monitor

Status & Test beam

Roberto Francisco
Pérez Benito



Collaboration meeting 26-27 April, 2011
Roberto Francisco Pérez Benito

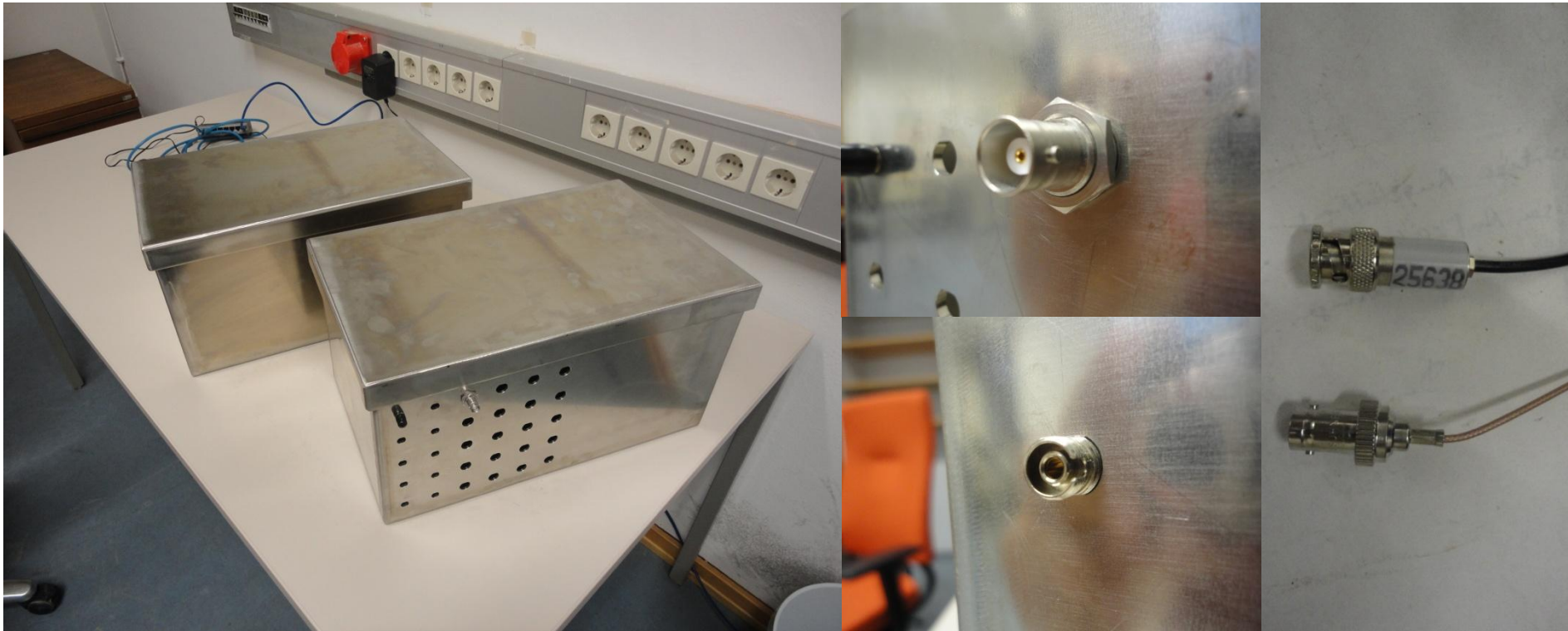


Overview

- The current status of SYMB
- The plan for the test beam
 - what to measure

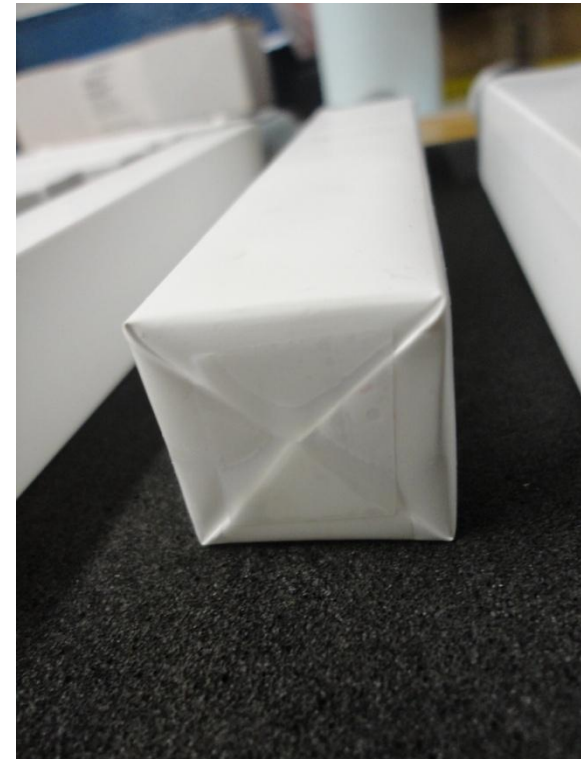
The current status of SYMB

Detector assembly - μ metal box



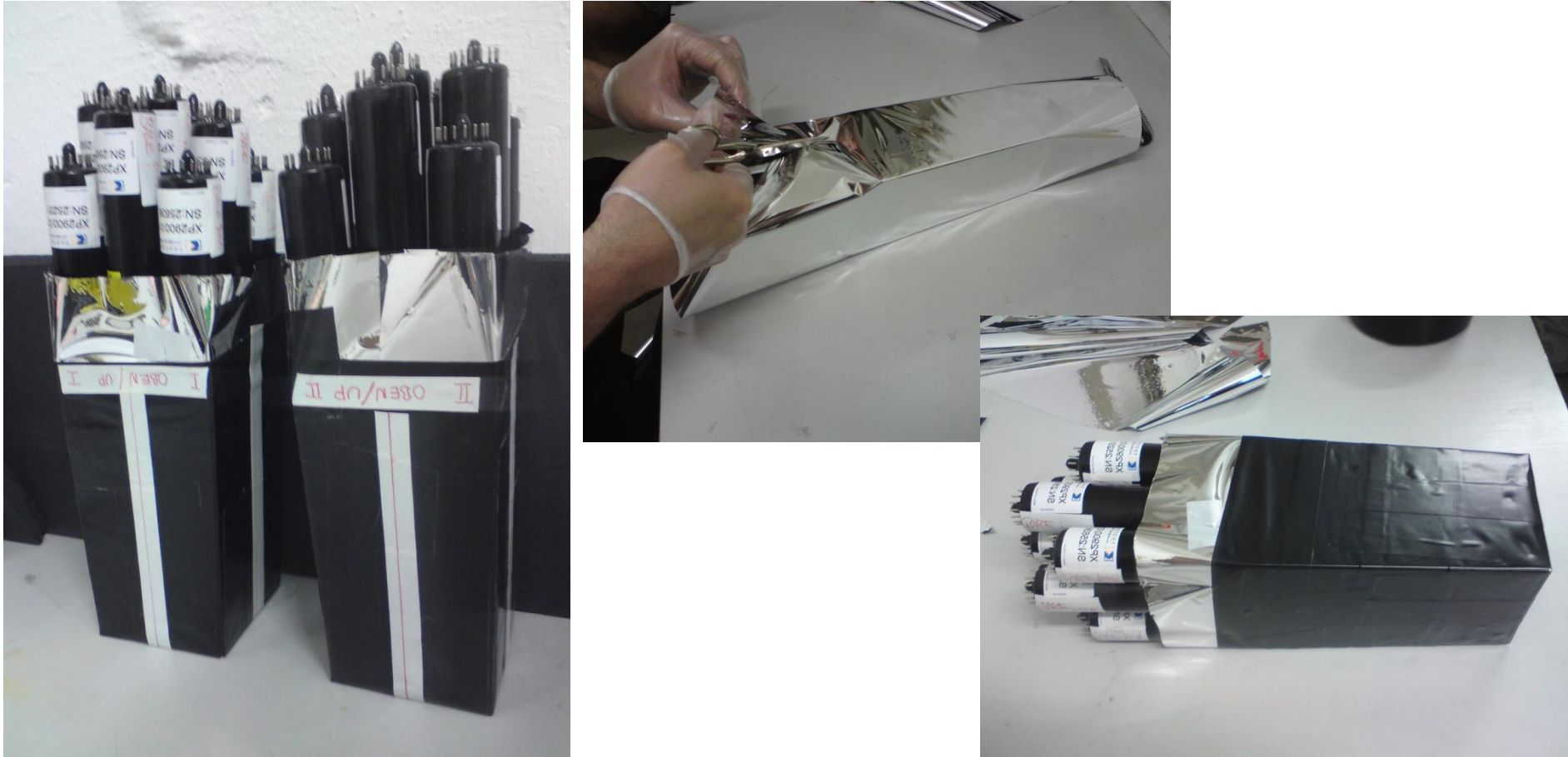
■ The current status of SYMB

■ Detector assembly - Crystal PdF_2 glue to the PMT



The current status of SYMB

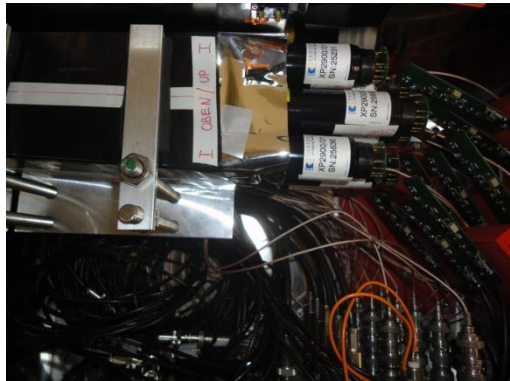
Detector assembly - Crystal PdF_2 glue to the PMT



The current status of SYMB

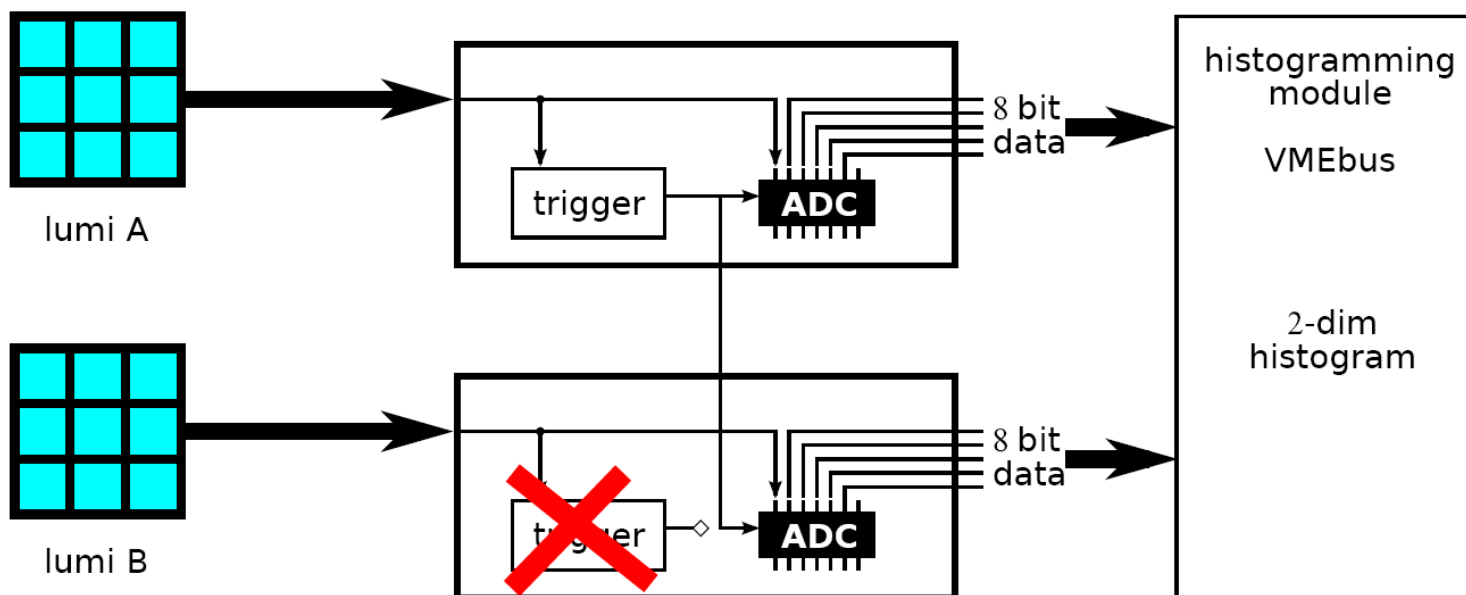


Detector assembly



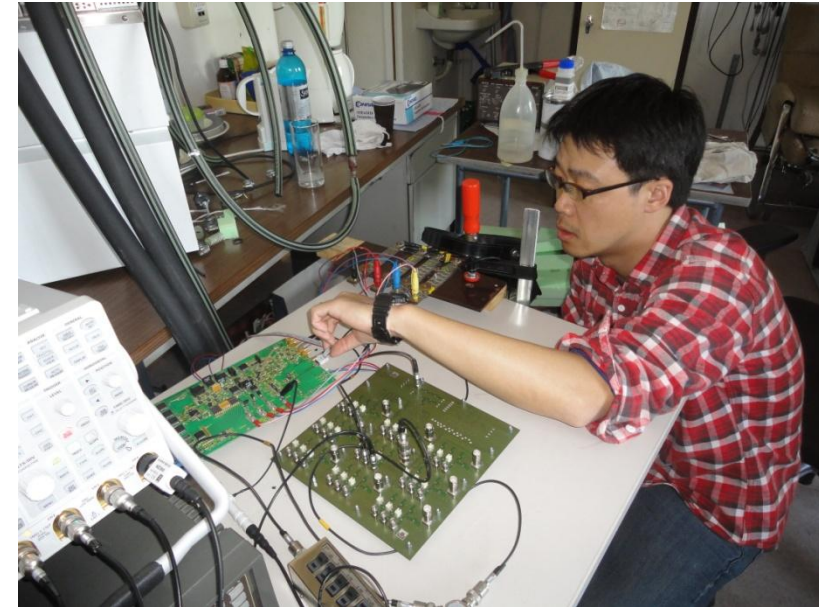
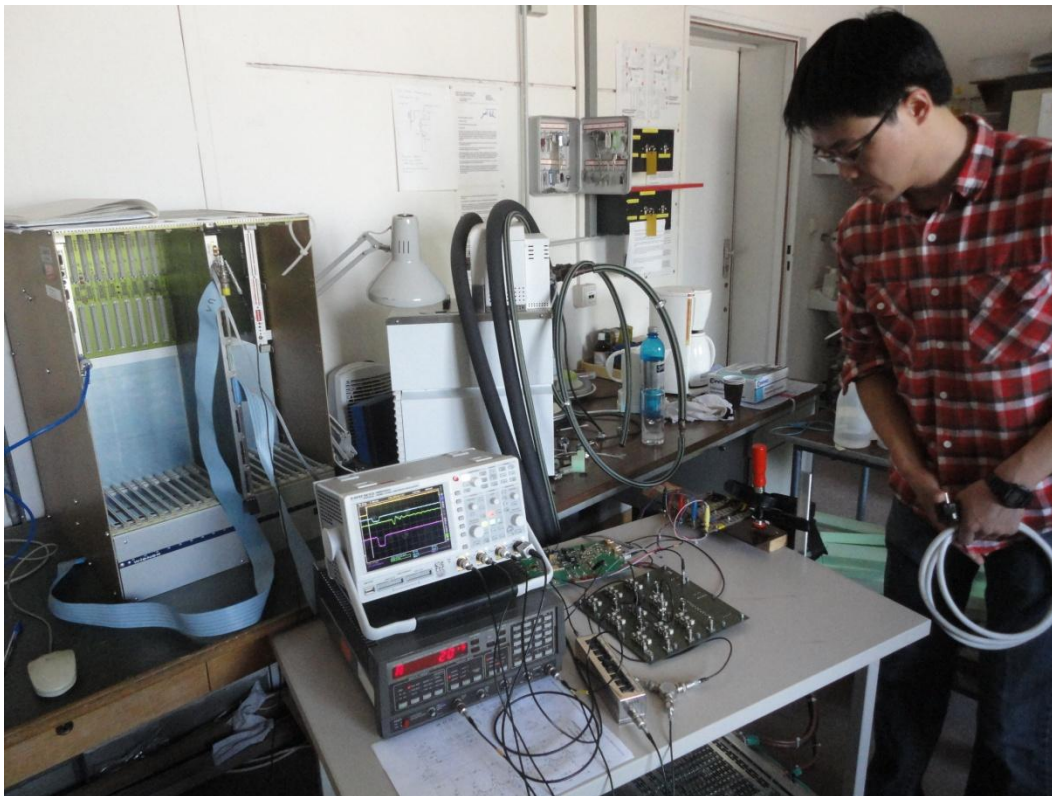
The current status of SYMB

Test Electronic



The current status of SYMB

Test Electronic



Collaboration meeting 26-27 April 2016
Roberto Francisco Pérez Bernal



■ The current status of SYMB

■ Electronic

- Analogues, trigger and histogram Card not ready
- Low Voltage not ready
- WME crate 9U not ready

TESTED & READY on May 9th



■ The plan for the test beam

- Two different DAQ:
 - 32 CH QDCs - V792 CAEN
 - Histogram card



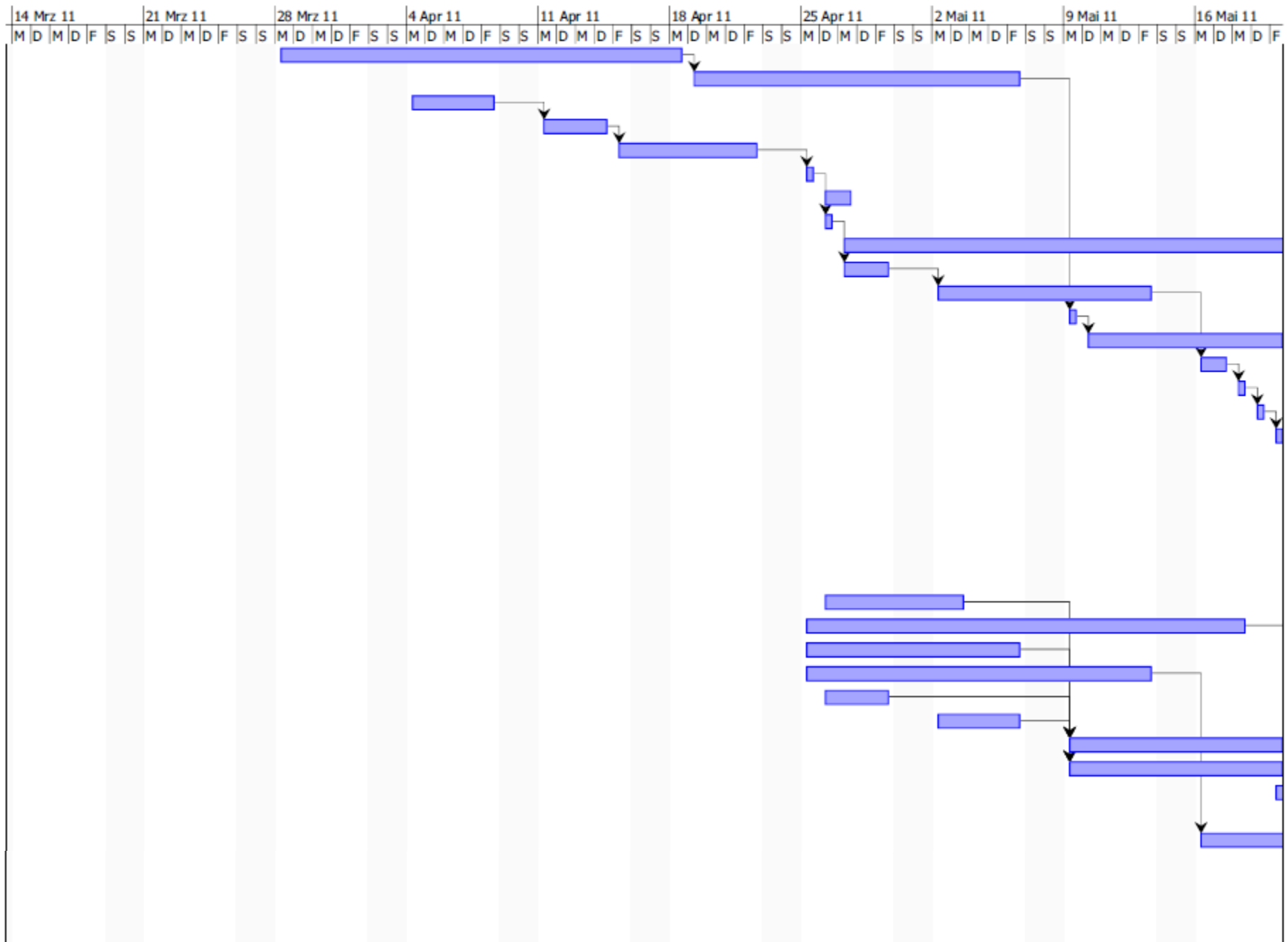
- The plan for the test beam
 - DAQ with 32 CH QDCs - V792 CAEN
- Priority get DAQ with QDC ready before 16.5.2011
 - Signals aspect crystal - Calibrated
 - $\Delta E/E$ for different energies (E_1, E_2, E_3)* and $e^{+/-}$
 - Angular resolution for view angle ($\theta = 89^\circ, 90^\circ, 91^\circ$)
 - Small angle symmetric Møller/Bhabha test

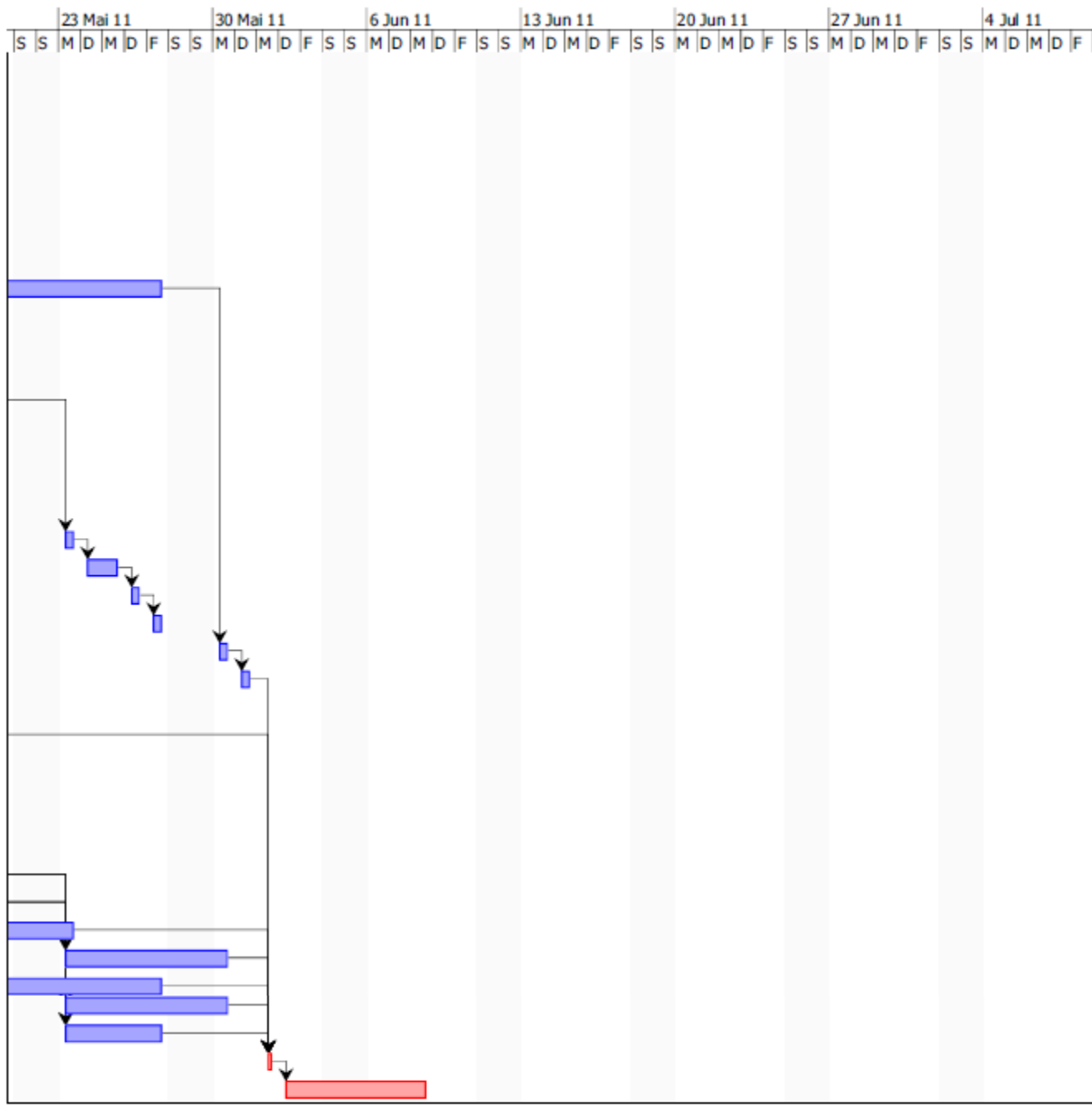
*1.0, 1.5 and 2.0 GeV energie $e^{+/-}$ beam



- The plan for the test beam
 - DAQ with Histogram Card VME crate
 - DAQ with Histogram Card ready before 23.5.2011
 - | | |
|------------------------------|-----------------------------|
| ■ Test distributors (Pulses) | } Test all part are running |
| ■ Local Maximum, SUM, ... | |
 - Calibration
 - Study of displacement effects
 - $\Delta E/E$ for different energies (E_1, E_2, E_3) and $e^{+/-}$
 - Angular resolution for view angle ($\theta = 89^\circ, 90^\circ, 91^\circ$)
 - Small angle symmetric Møller/Bhabha test

		Name	Dauer	Start	Ende	Vorgänger	Ressourcen	7 Mrz 11						
								M	D	M	D	F	S	S
1		Electronic	16 tage	28.03.11 08:00	18.04.11 17:00									
2		Test Electronic	14 tage	19.04.11 08:00	06.05.11 17:00	1								
3		Glue PMT and Cristall	5 tage	04.04.11 08:00	08.04.11 17:00									
4		Monte Signal cable	4 tage	11.04.11 08:00	14.04.11 17:00	3								
5		GSI test DAQ and HV modul	6 tage	15.04.11 08:00	22.04.11 17:00	4								
6		Charge transport	1 tag	25.04.11 08:00	25.04.11 17:00	5								
7		Olympus Meeting	2 tage	26.04.11 07:00	27.04.11 17:00									
8		Transport SYMB to Hamburg	1 tag	26.04.11 08:00	26.04.11 17:00	6								
9		Test Measurement Area 22	23 tage	27.04.11 08:00	27.05.11 17:00									
10		Instalation SYMB on Area 22	3 tage	27.04.11 08:00	29.04.11 17:00	8								
11		DAQ-QDC setup on Area 22	10 tage	02.05.11 08:00	13.05.11 17:00	10								
12		Histo-LV-WME from Mainz	1 tag	09.05.11 08:00	09.05.11 17:00	2								
13		DAQ-Histo set up on Area 22	9 tage	10.05.11 08:00	20.05.11 17:00	12								
14		Calibration with QDC	2 tage	16.05.11 08:00	17.05.11 17:00	11								
15		Energy(E1,E2,E3)e-e+ with QDC	1 tag	18.05.11 08:00	18.05.11 17:00	14								
16		Energy deposition for different angules with QDC	1 tag	19.05.11 08:00	19.05.11 17:00	15								
17		Small angle Möller/Bhabha with QDC	1 tag	20.05.11 08:00	20.05.11 17:00	16								
18		test distributor, LM with Histo card	1 tag	23.05.11 08:00	23.05.11 17:00	13								
19		Calibration with Histo card	2 tage	24.05.11 08:00	25.05.11 17:00	18								
20		Energy(E1,E2,E3)e-e+ with Histo card	1 tag	26.05.11 08:00	26.05.11 17:00	19								
21		Small angle Möller/Bhabha with Histo card	1 tag	27.05.11 08:00	27.05.11 17:00	20								
22		Desmonted	1 tag	30.05.11 08:00	30.05.11 17:00	9								
23		Transport SYMB to Mainz	1 tag	31.05.11 08:00	31.05.11 17:00	22								
24		Boris Gläser	6 tage	26.04.11 08:00	03.05.11 17:00									
25		Yue Ma	18 tage	25.04.11 08:00	18.05.11 17:00									
26		David Rodriguez	10 tage	25.04.11 08:00	06.05.11 17:00									
27		Roberto Pérez	15 tage	25.04.11 08:00	13.05.11 17:00									
28		Erik Göbel	4 tage	26.04.11 08:00	29.04.11 17:00									
29		Erik Göbel	5 tage	02.05.11 07:00	06.05.11 17:00									
30		Dominik Becker	10 tage	09.05.11 08:00	20.05.11 17:00	29;28;26;24								
31		Iris Zimmerman	10 tage	09.05.11 08:00	20.05.11 17:00	29;28;26;24								
32		Sebastian Baunack	2 tage	20.05.11 08:00	23.05.11 17:00									
33		Erik Göbel	6 tage	23.05.11 08:00	30.05.11 17:00	31;30								
34		Dmitry Khanft	10 tage	16.05.11 08:00	27.05.11 17:00	27								
35		Roberto Pérez	6 tage	23.05.11 08:00	30.05.11 17:00	31;30								
36		David Rodriguez	5 tage	23.05.11 08:00	27.05.11 17:00	31;30								
37		Meeting SYMB Mainz	0,5 tage	01.06.11 13:00	01.06.11 17:00	23;36;35;34;33;32;25								
38		Unglue PMT	5 tage	02.06.11 08:00	08.06.11 17:00	37								







THANKS