

schedule issue date: 23-Feb-2015

Version: 1.0

LHC Exp. 
  PS/SPS Exp. 
  INT Exp. 
  Other Exp.

		Apr							Mai							Jun							Jul							Aug							Sep							Oct							Nov						
Week		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48																					
Machine		Run 1: May 4-26														Run 2: June 24-July 8																																									
East Area	T8 - Irrad	EA Setup 14							EA-Irrad 196																																																
	T9	EA Setup 7	RE22 PANDA 22							ALICE (dical) 8	RE22 PANDA 14							INSU-LAB 14							BL4S 11							SHIP CALO 9	SHIP 14							ALICE FOCAL 7	SHIP GEM (+muons) 14							RE21 CBM 19									
	T10	EA Setup 7	ALICE ITS 9							ALICE AC-CORD 7	ALICE TOF-MRPC 7	ALICE FIT-MGEM 7	ALICE ITS 7	ALICE ITS 7	ALICE PHOS 7	NA58 (ECAL) 14							ALICE ITS 7	ALICE TOF-MRPC 7	ALICE ITS 7							ALICE ITS 7	ALICE PHOS 7							ALICE AC-CORD 7	ALICE ITS 7	ALICE FIT-MGEM 7	ALICE PHOS 7	ALICE TOF-MRPC 7	ALICE ITS 7	ALICE TPC 12											
	T11 Cloud	EA Setup 7	CLOUD 49							P349 21																					CLOUD 56																										

## PS: Mai 2015

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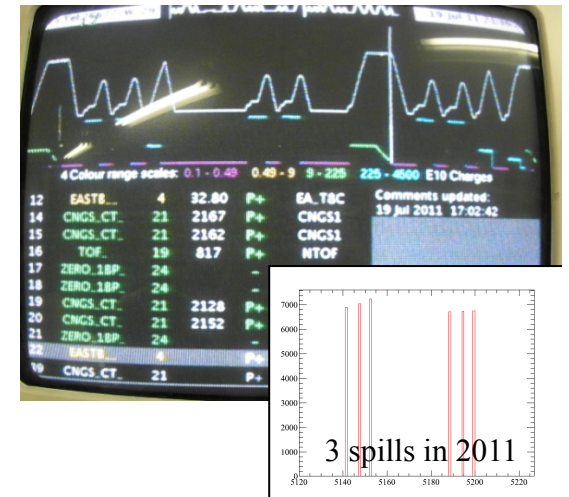
		Mon 27 Apr	Tue 28 Apr	Wed 29 Apr	Thu 30 Apr	Fri 1 Mai	Sat 2 Mai	Sun 3 Mai	Mon 4 Mai	Tue 5 Mai	Wed 6 Mai	Thu 7 Mai	Fri 8 Mai	Sat 9 Mai	Sun 10 Mai	Mon 11 Mai	Tue 12 Mai	Wed 13 Mai	Thu 14 Mai	Fri 15 Mai	Sat 16 Mai	Sun 17 Mai	Mon 18 Mai	Tue 19 Mai	Wed 20 Mai	Thu 21 Mai	Fri 22 Mai	Sat 23 Mai	Sun 24 Mai	Mon 25 Mai	Tue 26 Mai	Wed 27 Mai	Thu 28 Mai										
Week		18							19							20							21																				
Machine																																											
East Area	T8 - Irrad	EA Setup							M. Glaser																																		
	T9	EA Setup							J. Schwiening														RE22 PANDA							I. Laktinec													
	T10	EA Setup														P. Martinengo							ALICE ITS							ALICE ACCORD							ALICE						
	T11 Cloud	J. Kirkby	EA Setup																																								

## Common target in East Hall

primary 24 GeV/c proton beam from PS ( $2 \cdot 10^{11}$  per pulse)

45.6 sec PS “super-cycle”

nominal: 1 spill (~0.4 sec) to T9 for each PS super-cycle  
(asked for at least 2 spills, to be decided)



T9: 1.5 – 10 (15?) GeV/c

secondary target selects beam composition (electron-rich or hadron-rich)

target is common to East Hall North experiments, needs to be negotiated in user meeting

asked for hadron-rich target – did not work well in 2014, EA crew will try to fix alignment before our run,

we may have to invest one shift into target alignment if work in April is not successful

T9 controls own momentum, polarity, and focus of secondary beam via computer

convenient access to setup, about 10 sec for beam stopper, user responsible for search

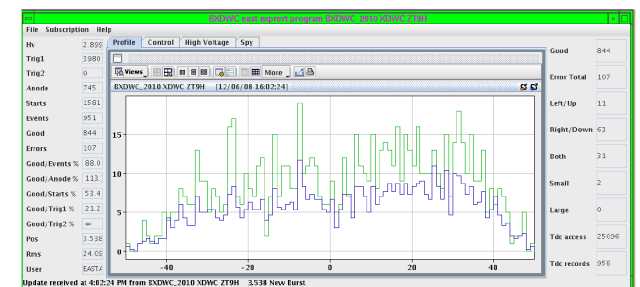
(new rules for 2015? will investigate)

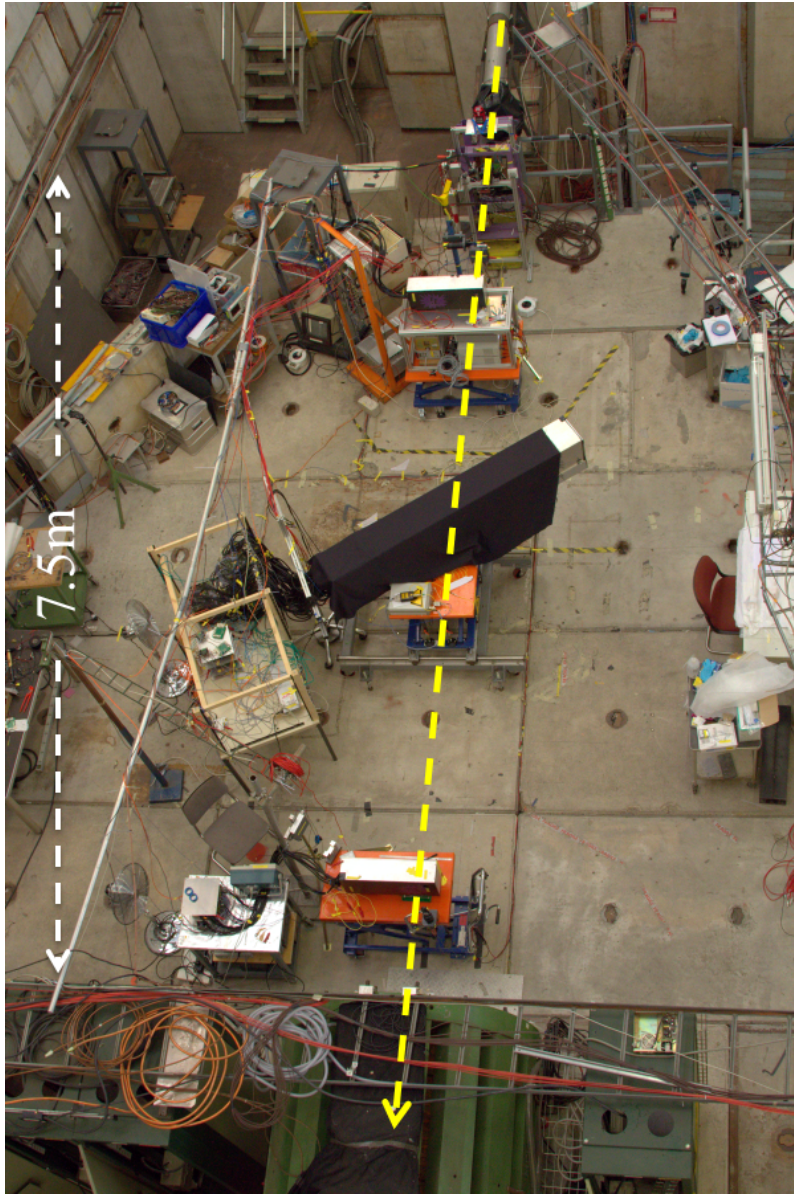
## Beam instrumentation

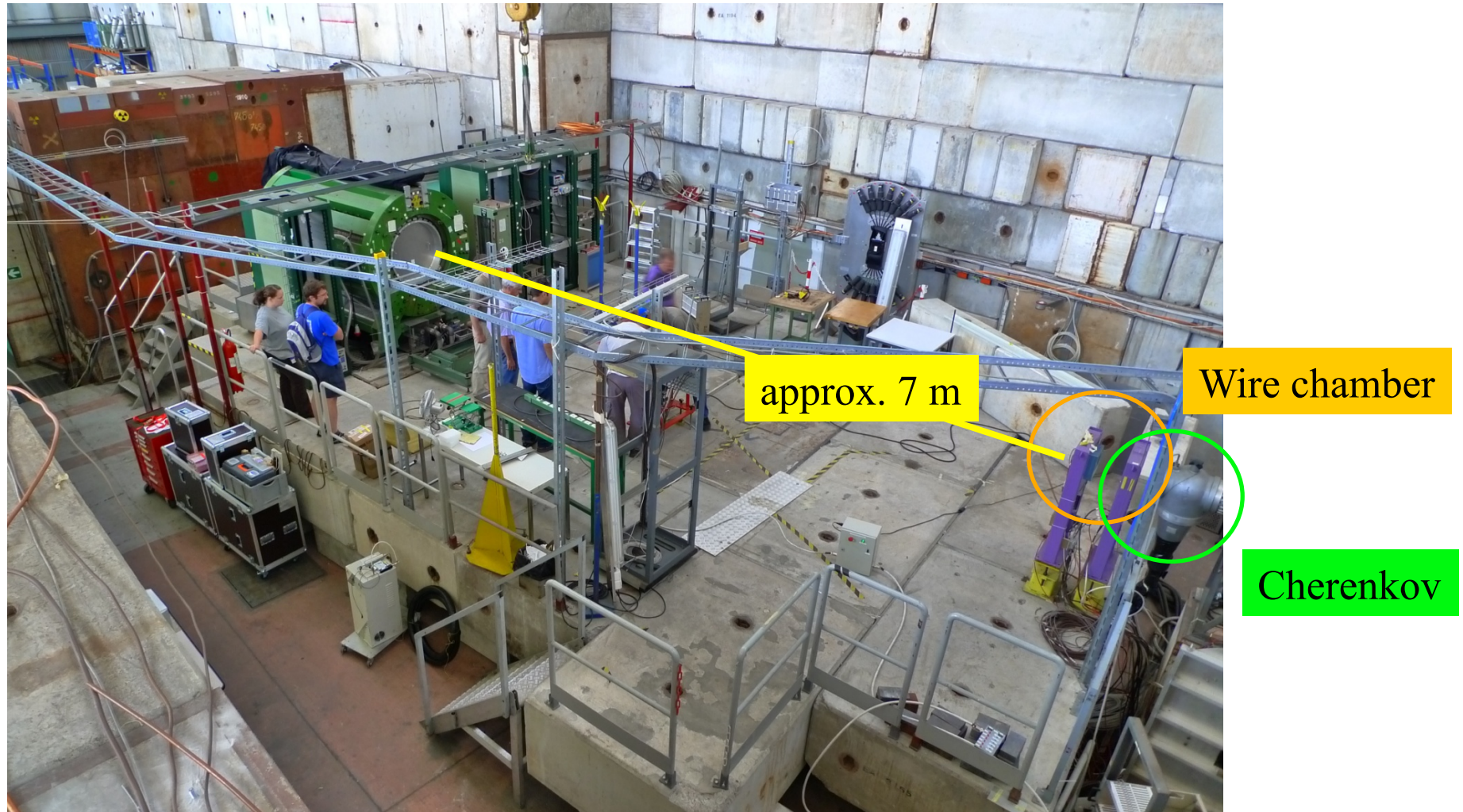
scintillator for beam intensity

wire chamber for monitoring x/y profile at exit beampipe

Cherenkov threshold counter (CO<sub>2</sub>, Air) [Giessen group expertise]







In 2011 CERN provided remote controlled tables (XSCA & DESY table) per request.

## Barrel DIRC test beam goals

Evaluate PID performance of plate and bar/lens designs with prism expansion volume.

“Proto 4” – expansion volume: large fused silica prism, bar or plate attached with or without focusing, readout using 3x5 MCP-PMT array, PADIWA/TRB3 readout.

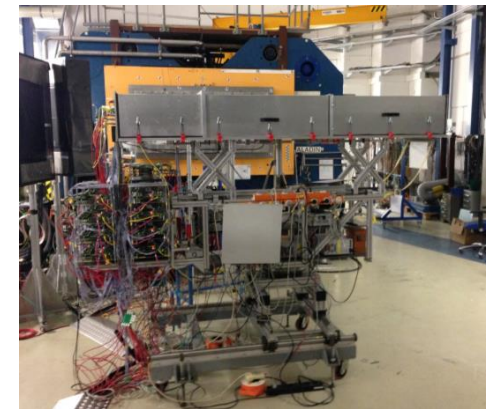
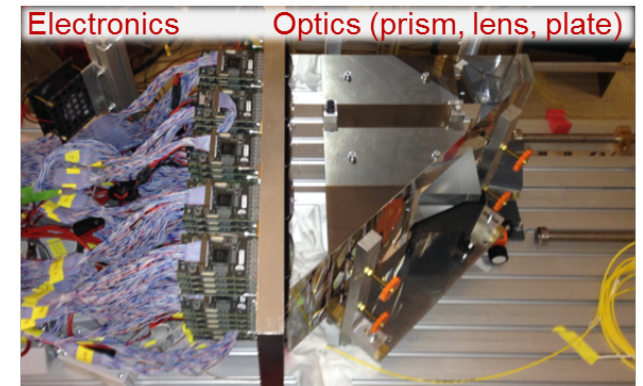
Measure photon yield and single photon Cherenkov angle resolution  
fine angle scans, high-mom beam (remote controlled rotation of proto)

Measure track Cherenkov angle resolution.

Evaluate PID performance for lower momenta to simulate pi/K Cherenkov angle difference using pi/proton  
(use tag from MCP-TOF and gas Cherenkov)

Demonstrate time-based imaging reconstruction approach for plate and bar.

(Both time-based likelihoods and photon yield measurement need improved readout electronics.)



DAQ using PADIWA/TRBv3 to write hld files, unpacker software to convert to ROOT trees, calibrate, convert to analysis trees, interactive analysis GUI (mdisplay, tdisplay, etc).

Configuration as in 2014 – updated PADIWA components and TRB firmware (more channels per TRB).

Updated readout box, added active ventilation, improved grounding.

Updated MCP-PMT / PADIWA holders and new holder for 1" 8x8 MaPMT for possible special runs at end.

Baseline plan is to keep Disc DAQ and Barrel DAQ separate to avoid complications.

Need 15 MCP-PMTs for prism readout, 15 are in hand at GSI but need a few loaners from Mainz as fallback solution in case of PMT problems.

Barrel setup will be transported by truck via France to CERN Preveessin, internal transport to Meyrin.

4 persons from GSI (Andreas, Carsten, Marvin, JS) will be at CERN the whole time (except for 4 week break), 1-2 additional GSI persons could come to CERN for night shifts, 7-10 days at a time.

Michael Traxler for one week at the start, Greg (now ODU) probably for two weeks in May.

Data analysis team at GSI, daily phone/SeeVogh meetings planned to coordinate efforts.

**Main discussion points for today: space/beam requirements, manpower, scheduling, logistics.**

**Schedule one more (SeeVogh?) meeting in April to discuss the test beam plans?**

Day	Beam	Date	number of persons at CERN (planned)																		Total	activity	comments						
			Erlangen			Giessen						GSI						Mainz											
			Albert	Fred	Merlin	NN	Avetik	Erik	Julian	Hasko	Klim	Kristof	Mustafa	NN	Andreas	Carsten	Marvin	Jochen	Michael	Doro				Georg	Marko	Roman	Matthias	Matteo	NN
1		Sun	May 3, 2015																								5	travel, arrive at CERN	
2		Mon	May 4, 2015																								8	customs, unload	earliest possible start date for night shifts
3		Tue	May 5, 2015																								10	assembly	
4		Wed	May 6, 2015																								10	preparation, calibration	
5		Thu	May 7, 2015																								10	preparation, calibration - or beam?	
6	1	Fri	May 8, 2015																								10	latest start date for beam	likely start date for night shifts
7	2	Sat	May 9, 2015																								10		
8	3	Sun	May 10, 2015																								10		
9	4	Mon	May 11, 2015																								9		
10	5	Tue	May 12, 2015																								9		
11	6	Wed	May 13, 2015																								9		
12	7	Thu	May 14, 2015																								9		
13	8	Fri	May 15, 2015																								9		
14	9	Sat	May 16, 2015																								9		
15	10	Sun	May 17, 2015																								9		
16	11	Mon	May 18, 2015																								9		
17	12	Tue	May 19, 2015																								9		
18	13	Wed	May 20, 2015																								9		
19	14	Thu	May 21, 2015																								9		
20	15	Fri	May 22, 2015																								9		
21	16	Sat	May 23, 2015																								9		
22	17	Sun	May 24, 2015																								9		
23	18	Mon	May 25, 2015																								9		
24	19	Tue	May 26, 2015																								9		
25		Wed	May 27, 2015																								9		
26		Sun	June 21, 2015																								9		
27		Mon	June 22, 2015																								9		
28		Tue	June 23, 2015																								9		
29	1	Wed	June 24, 2015																								9		
30	2	Thu	June 25, 2015																								9		
31	3	Fri	June 26, 2015																								9		
32	4	Sat	June 27, 2015																								9		
33	5	Sun	June 28, 2015																								9		
34	6	Mon	June 29, 2015																								9		
35	7	Tue	June 30, 2015																								9		
36	8	Wed	July 1, 2015																								9		
37	9	Thu	July 2, 2015																								9		
38	10	Fri	July 3, 2015																								9		
39	11	Sat	July 4, 2015																								9		
40	12	Sun	July 5, 2015																								9		
41	13	Mon	July 6, 2015																								9		
42	14	Tue	July 7, 2015																								9		
43	15	Wed	July 8, 2015																								9	end beam after night shift, remove setup from T9, rad protection, load truck, customs	
44		Thu	July 9, 2015																								8	travel to home institutes	

google drive and dropbox  
as repository for shared  
planning and safety documents.

Please add your itineraries  
once you know who will be  
at CERN when.