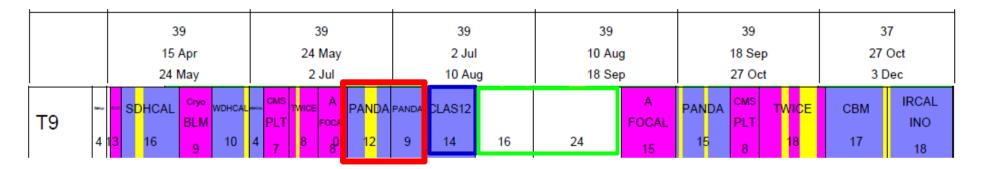




PANDA has been assigned two test beam periods in PS T9 beamline

- Jun 20 Jul 11 (main user DIRCs) and
- Sep 18 Oct 3 (main user Muons, room for DIRC if required).

Which groups plan to participate?



Does the June/July schedule work for PANDA DIRC groups?

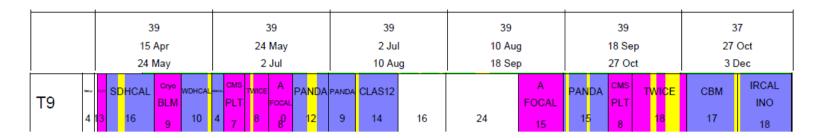
- Academic year still in full swing (lectures, exercises)
- Disk prototype (Giessen) has test beam opportunity at DESY in June/July
- Barrel DIRC prototype could profit from few more weeks preparation

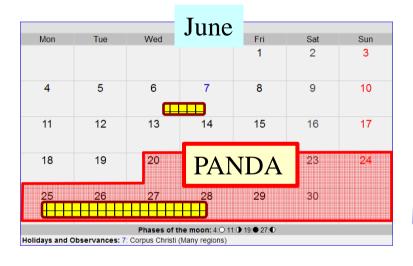
What are our options?

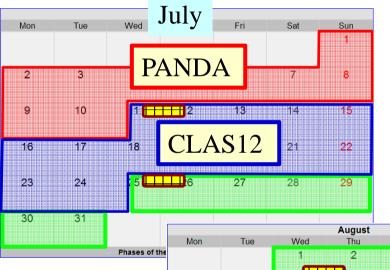










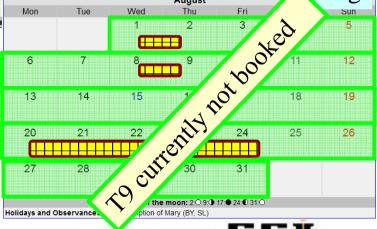


MD: Machine
Development
PS @ 50%

Aug

CLAS12 in T9 following us then long 40 day gap (MD) until Sep 3...

Could ask CERN to move us by a few weeks.



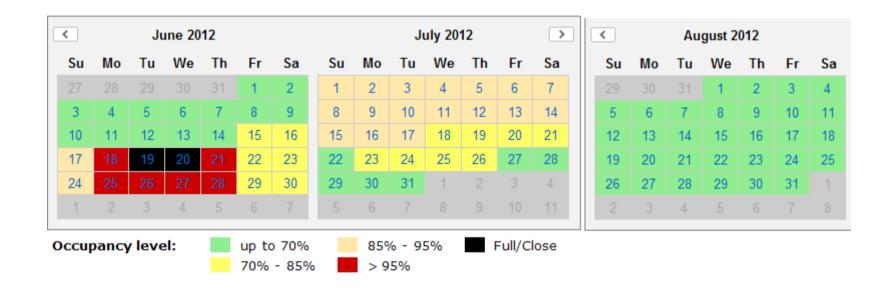




Logistics::Accommodations

CERN Hostel (58 Euro/night)

already mostly booked in June/July (summer students), available in August



Alternatives in Thoiry (shuttle bus available):

Holiday Inn 91 Euro

Business Park Hotel 56 Euro







CLAS12 has expressed an interest to move their time slot by 2 weeks: Jul 25 – Aug 8 have inquired at CERN, no official plan yet want to avoid clash with our schedule

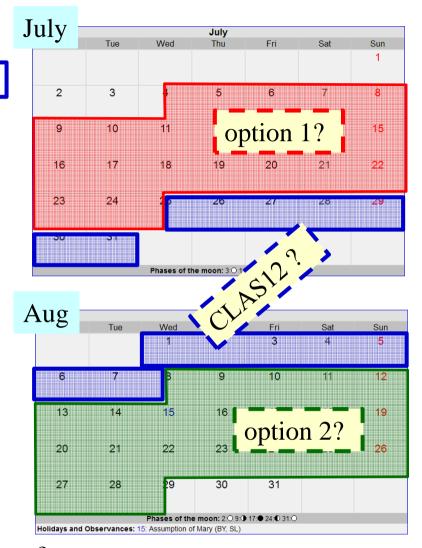
This could leave us with two options:

move by two weeks: Jul 4 – Jul 25 or

move after CLAS12: Aug 8 – Aug 29 ?

No guarantees that CERN would be able to grant the requests for rescheduling (availability of personnel in Aug?).

Let's discuss the Pros and Cons.



What constraints do interested DIRC groups have? (Erlangen, Giessen, Glasgow, GSI, Mainz, Vienna, ...)







Common target in East Hall

primary 24 GeV/c proton beam from PS (2*10¹¹ per pulse)

45.6 sec "super-cycle"

nominal: 1 pulse (~0.4 sec) to T9 for each super-cycle (3 pulses in 2011)



T9: 1.5 - 10 GeV/c

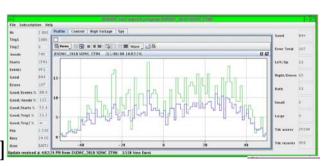
secondary target selects beam composition (electron-rich or hadron-rich)
target is common to East Hall North experiments, needs to be negotiated
T9 controls own momentum, polarity, and focus of secondary beam via computer
convenient access to setup, about 10 sec for beam stopper, user responsible for search

Beam instrumentation

scintillator for beam intensity

wire chamber for monitoring x/y profile at exit beampipe

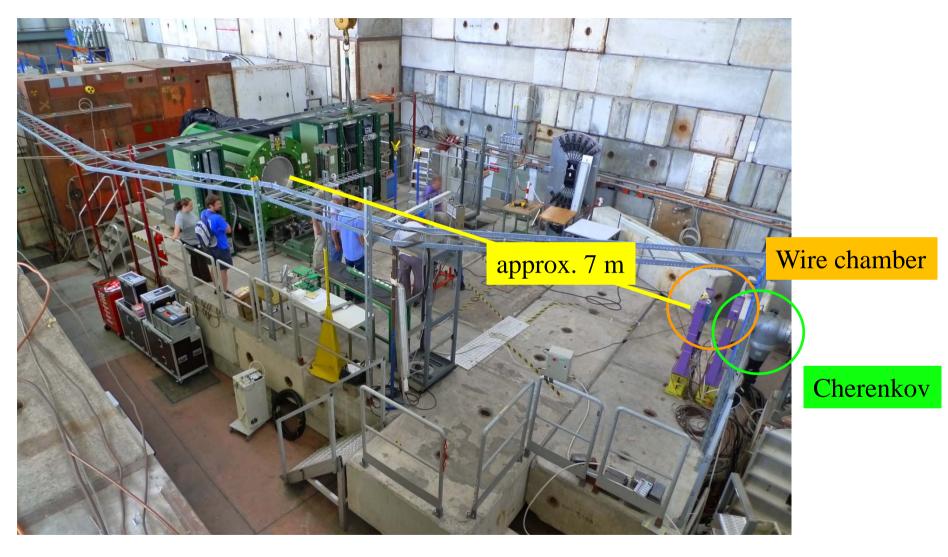
Cherenkov threshold counter (CO₂, Air) [not tested in 2011]









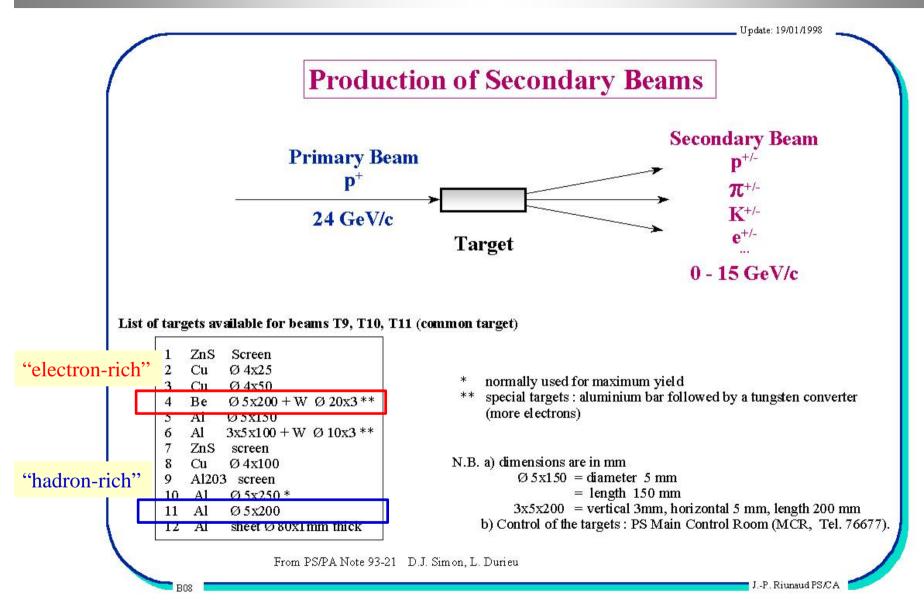


In 2011 CERN provided remote controlled tables (XSCA & DESY table) per request.













Test Beam Parameters

Parameter	Т9	T10
Maximum Momentum [GeV/c]	15	7
Production angle [mrad]	0	61.6
Distance target - reference focus [m]	55.8	34.9
Beam height above floor [m]	2.5	2.505
Angular acceptance Horizontal [mr]	±4.8	±5.4
Vertical [mr]	±5.8	±13.9
Acceptance solid angle [µsterad]	87	224
Theoretical momentum resolution [%]	0.24	0.24
Maximum momentum band [%]	±10	±8
Magnification at ref.focus (X,Y)	1.0, 1.2	0.8, 0.6
Protons on North target per spill	15 10 ¹¹	
Maximum flux (depending on p, Q,)	10^{6}	10^{6}

