

# Collaboration Board - CM47

- ▶ Shifts to and from June 2016
- ▶ Shift pattern and magnet monitoring

# Shift taking status

Total shift summary to date			
Institution	Shifts done	Total	Fraction done
Belgrade	45	57.86	0.78
CERN	0	0.00	0.00
IHEP	43.2	38.57	1.12
Osaka	0	0.00	0.00
Sichuan	0	7.12	0.00
Brookhaven	7	19.29	0.36
DL	0	0.00	0.00
Iowa	0	0.00	0.00
LBNL	0	0.00	0.00
Liverpool	30	19.29	1.56
Milano	18	19.29	0.93
Napoli	5	19.29	0.26
NIKHEF	0	0.00	0.00
Oxford	0	19.29	0.00
Pavia	22	19.29	1.14
Imperial	97.9	129.96	0.75
RAL	7.5	7.12	1.05
			0.00
Riverside	22.5	14.25	1.58
Roma	23	38.57	0.60
Glasgow	27.5	26.41	1.04
Sofia	75.5	57.86	1.30
Mississippi	37	45.69	0.81
Sheffield	40.5	50.73	0.80
Geneva	40	45.69	0.88
Strathclyde	83	45.69	1.82
Warwick	114.8	45.69	2.51
Brunel	45.3	33.53	1.35
IIT	143.8	120.75	1.19
Fermilab	100	96.43	1.04
Novi Sad	0	19.29	0.00

- ▶ Shift status from 2015/01 to Now (2016/05)
- ▶ Institutional performance is largely positive, although this masks distribution within groups

	2015/01 - Now	2017/01 (May)	2017/02 (Sept)
# Shifters	62/48	48	48
# Shifts	1109	186	243
# Shift Blocks / shifter	3.8	0.8	1.0

Two census periods

Assuming 24/7 running<sup>2</sup>

# Shifts

- ▶ Still have lots of shifts to do to the end of the year
- ▶ Some institutes have historical deficits in their shift performance
- ▶ Most collaborators have fulfilled the requirement to sign papers to date.

*CA : "Individual members in the group must satisfy at least 50% of their nominal individual quota"*

- ▶ There are a number (12) of collaborators (mostly academics) who have done less than 50% of their allocation to date. I will be approaching them first for the user cycles. The next cycle is **May 2 –June 2**.
- ▶ Can still fulfil the minimal shift requirement by doing up to 2 shift blocks in May or (if Sept is an option) one in May and one in Sept

# Shifts & Magnet monitoring

- ▶ Manpower attrition have led to gaps in shift coverage in recent user cycles. Can we mitigate large gaps in shift cover?
  - ▶ Run 16/7 cycle instead? Will cut down on the # of shifts to do
  - ▶ BUT : magnets still require monitoring
  - ▶ We need 3 shifters per day just to monitor; with no data-taking at all. 16/7 (4 data-taking shifts) really has 5 shifts, with one doing monitoring over night. This doesn't take the pressure off.
  - ▶ Q: Do the shift crew still need to monitor magnets around the clock? If yes, then we will do so, but we'll take a hit in data-taking efficiency

# Summary

- ▶ We are still capable of manning the experiment, although attrition is making 24/7 harder to maintain. Frequently we have shift gaps which must be managed within shift blocks.
- ▶ Magnet monitoring (and later Hydrogen monitoring) imposes constraints on shift planning which exacerbates the problem.