

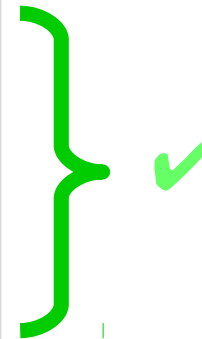
MICE Operations

- ▶ MOM Roster
- ▶ ISIS Schedule
- ▶ Running plans to July 2015
- ▶ Shift model for July
- ▶ On-call and Experts
- ▶ Training

MOM Rota

MOMRoster

| Date From | Date To | MOM |
|---------------------|---------------------|--------------------|
| 7th January 2015 | 4th February 2015 | Chris Rogers |
| 4th February 2015 | 4th March 2015 | Pierrick Hanlet |
| 4th March 2015 | 1st April 2015 | Yordan Karadzov |
| 1st April 2015 | 29th April 2015 | Milorad Popovic |
| 29th April 2015 | 27th May 2015 | Paul Hodgson |
| 27th May 2015 | 24th June 2015 | Victoria Blackmore |
| 24th June 2015 | 22nd July 2015 | Ryan Bayes |
| 22nd July 2015 | 19th August 2015 | Paul Hodgson |
| 19th August 2015 | 16th September 2015 | Ed Overton |
| 16th September 2015 | 14th October 2015 | Yordan Karadzov |
| 14th October 2015 | 4th November 2015 | Melissa Uchida |
| 4th November 2015 | 2nd December 2015 | Victoria Blackmore |
| 2nd December 2015 | 30th December 2016 | Paolo Franchini |
| 4th January 2016 | 3rd February 2016 | Ed Overton |
| 3rd February 2016 | 2nd March 2016 | Ryan Bayes |
| 2nd March 2016 | 30th March 2016 | Paul Kyberd |
| 30th March 2016 | 27th April 2016 | Melissa Uchida |
| 27th April 2016 | 31st May 2016 | Paolo Franchini |



ISIS Schedule

| User Period | Start Date | End date | Days |
|----------------|------------|------------|------|
| Cycle 2014/03 | 17/3/2015 | 1/5/2015 | 45 |
| Cycle 2015/01a | 2/6/2015 | 5/7/2015 | 36 |
| RAL Open Week | | | |
| Cycle 2015/01b | 14/7/2015 | 24/7/2015 | 10 |
| Cycle 2015/02 | 8/9/2015 | 16/10/2015 | 39 |
| Cycle 2015/03 | 3/11/2015 | 18/12/2015 | 45 |
| Cycle 2015/04 | 16/2/2016 | 1/4/2016 | 45 |

DAQ and Readout tests
Tracker integration
TOF calibration
Beamline precommissioning

Shift Model

Current CHEESE list : 63 shifters

| Cycle | Days | Shifts / day | Shifts | # Maintenance Days per week | # MOM Shifts | | | |
|---------------------------|------------|---------------|--------|-----------------------------|--------------------------------|----------------------------|---------------------------------|----|
| 2014/03 | 10 | 4 | 40 | | 18 | | | |
| 2015/01a | 36 | 3 | 98 | 1 | Shift credit for One MOM Shift | | | |
| 2015/01b | 10 | 6 | 58 | | 0 | | | |
| 2015/02 | 39 | 6 | 224 | | #MOM Shifts | | | |
| 2015/03 | 45 | 6 | 258 | | 0 | | | |
| 2015/04 | 45 | 6 | 258 | | Total Shifts | | | |
| Total Experimental shifts | | | 936 | | | | | |
| # shifts / person | | | | | 14.8571428571 | Shift block length | | |
| # shift blocks / person | | | | | 2.9714285714 | 5 | | |
| Institute | Scientists | RA + Students | MOMs | Total | Shifts / Institute | Shift Blocks per Institute | Shift blocks per active shifter | |
| Belgrade | 2 | 2 | 0 | 4 | 59.43 | 12 | 3.0 | |
| CERN | 0 | 0 | 0 | 0 | 0.00 | 0 | 0.0 | |
| IHEP | 1 | 1 | 0 | 2 | 29.71 | 6 | 3.0 | |
| Osaka | 0 | 0 | 0 | 0 | 0.00 | 0 | 0.0 | |
| Sichuan | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| Brookhaven | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| DL | 0 | 0 | 0 | 0 | 0.00 | 0 | 0.0 | |
| Iowa | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| LBNL | 2 | 0 | 0 | 2 | 29.71 | 6 | 3.0 | |
| Liverpool | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| Milano | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| Napoli | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| NIKHEF | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| Oxford | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| Pavia | 1 | 0 | 0 | 1 | 14.86 | 3 | 3.0 | |
| Imperial | 4 | 4 | 2 | 10 | 118.86 | 24 | 3.0 | |
| RAL | 1 | 0 | 1 | 2 | 14.86 | 3 | 3.0 | |
| Riverside | 1 | 1 | 0 | 2 | 29.71 | 6 | 3.0 | |
| Roma | 2 | 0 | 0 | 2 | 29.71 | 6 | 3.0 | |
| Glasgow | 1 | 1 | 1 | 3 | 29.71 | 6 | 3.0 | |
| Sofia | 2 | 1 | 0 | 3 | 44.57 | 9 | 3.0 | |
| Mississippi | 3 | 0 | 0 | 3 | 44.57 | 9 | 3.0 | |
| Sheffield | 1 | 1 | 2 | 4 | 29.71 | 6 | 3.0 | |
| Geneva | 1 | 2 | 1 | 4 | 44.57 | 9 | 3.0 | |
| Strathclyde | 1 | 3 | 0 | 4 | 59.43 | 12 | 3.0 | |
| Warwick | 1 | 2 | 1 | 4 | 44.57 | 9 | 3.0 | |
| Brunel | 1 | 2 | 1 | 4 | 44.57 | 9 | 3.0 | |
| IIT | 3 | 2 | 1 | 6 | 74.29 | 15 | 3.0 | |
| Femilab | 2 | 3 | 1 | 6 | 74.29 | 15 | 3.0 | |
| | | | | | 74 | 936.00 | 189 | 78 |
| | | | | | | Total Blocks | 189 | |
| | | | | | | Total Shifts | 945 | |
| | | | | | | Shift Imbalance | -9 | |

Data-taking to now

March – April : Weekend running

Debugged DAQ and Run Control
(Re)commissioned TOF, KL, CKOV and EMR
Installed and commissioned new trigger board
TOF calibration and CKOV tuning

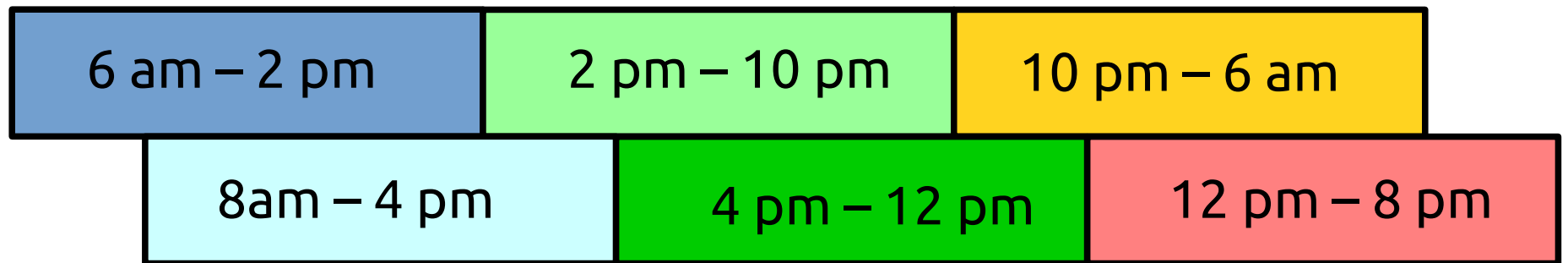
June - Now : Nightly running

Further Development of DAQ, Run Control and
online reconstruction
Integration and commissioning of tracker
Beamline pre-commissioning activities
Full operation of Step IV detectors & online
reconstruction with beam
Tracker alignment

More detail in the MOM talk
tomorrow

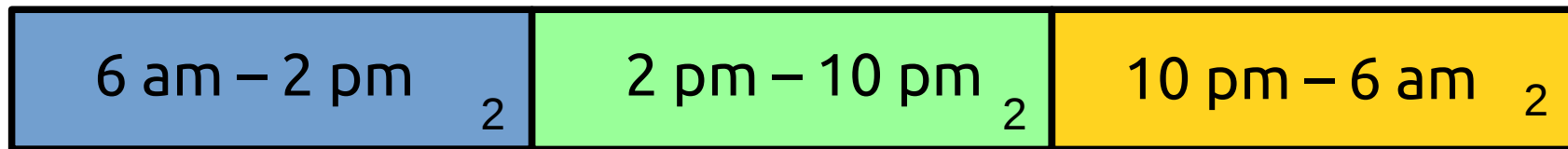
Shift model in July

- ▶ Currently : 24/7 with staggered shift streams



Shift model in July

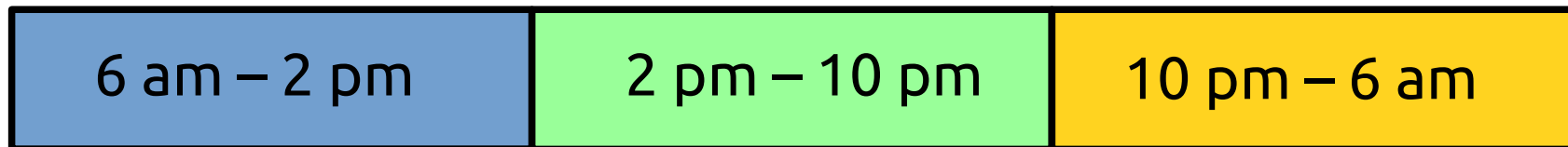
- ▶ Proposal : 24/7 with non-staggered shift streams



- ▶ Collision of commissioning/operations in July could make data-taking unstable. Although we've rostered for 24 hour data-taking, this may not happen. Day shifts may turn into reserve shifts with night shifts for data-taking.
- ▶ Shifters should assume that they are doing shift. Next day shifts will be cancelled at the daily run meeting if necessary.

Shift model in July

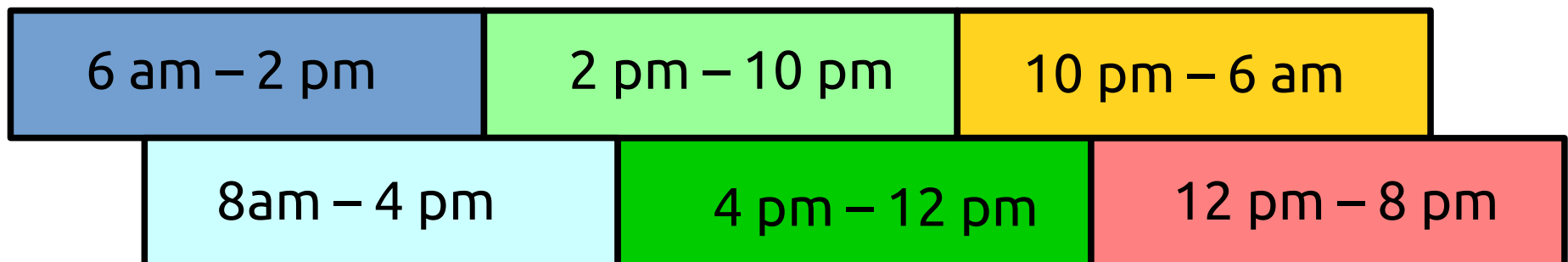
- ▶ Proposal : 24/7 with non-staggered shift streams



- ▶ Collision of commissioning/operations in July could make data-taking unstable. Although we've planned for 24 hour data-taking, this may not happen. Day shifts may turn into reserve shifts with night shifts for data-taking.
- ▶ Shifters should assume that they are doing shift. Next day shifts will be cancelled at the daily run meeting if necessary.

Cycle 2015/02

- ▶ Shift allocation for the September User Run will open in July
- ▶ The first week will be open for academics and scientists at national labs only. Paul and I will monitor the allocation.
- ▶ Aim for 24/7 running



Documentation

- ▶ Documentation still needs some work
- ▶ Elog discipline needs some work as well.
- ▶ Include as much information about an entry as possible (not just one line)
 - Symptoms
 - Diagnosis
 - Solutions

| System | Shifter Documentation | Emergency Instructions | Expert Manual |
|-------------------------|-----------------------|------------------------|---------------|
| <u>Beamstop</u> | Green | Green | Green |
| Target | Green | Light Blue | Green |
| <u>Beamline Magnets</u> | Green | Green | Green |
| Luminosity Monitor | Light Green | Light Blue | Light Green |
| Decay Solenoid | Green | Green | Green |
| Diffuser | Light Blue | Light Blue | Light Blue |
| CKOV | Green | Green | Green |
| TOF | Green | Light Blue | Green |
| KL | Green | Light Blue | Green |
| EMR | Light Blue | Light Blue | Light Blue |
| Trackers | Light Blue | Light Blue | Light Blue |
| Spectrometer Solenoids | Light Green | Light Blue | Light Blue |
| Focus Coil | Light Blue | Light Blue | Light Blue |
| Hydrogen System | Light Blue | Light Blue | Light Blue |
| PPS | Green | Green | Green |
| Online Reconstruction | Green | N/A | Green |
| Online Monitoring | Green | N/A | Green |

Experts and on-call

- ▶ Software and Beamline issues during data taking have been served through SOC and BLOCs
- ▶ Staffing the SOC and BLOCs has been tricky
- ▶ We will soon need a TROC (Tracker On Call) and we also need a DAQ On Call (DOC).
- ▶ The pool of trained experts is small and there is significant overlap between a small number of very hard-working individuals
- ▶ If you, or a member of your group, can come to RAL for a reasonable period (2 months) whom we can train to be SOC or BLOC it would help lighten the burden a bit.

Shift Training

- ▶ RAL and ISIS safety Induction : ISIS can be done online
- ▶ Hall safety and PPE (John Govans)
- ▶ MOM talk (MOM)
- ▶ PPS : mostly controlled access (Craig/Henry/Adam)
- ▶ Beamline and Target (Henry)
- ▶ Control room (Chris H, Rhys Gardner, Adam)
- ▶ Two Shadow shifts

Shadow shifts serve two purposes : training in control room operations and familiarisation with running environment. Best done just before your shift block.

Training

- ▶ Plan to offer training both at CM (Wednesday/Thursday) and individually.
- ▶ Can't do this at any old time.
- ▶ Will offer beamline, MOM, PPE training on Tuesdays and Thursdays. PPS training will happen on Wednesday's as this is a maintenance day and we potentially have access to the Hall.
- ▶ A training schedule will be developed every month depending on the training status of the shifters.

CM Training



<http://micewww.pp.rl.ac.uk/projects/operations/wiki/RunPlan20150624>

Wednesday Hall training : 2 teams. Please check the page above to work out what team you are on.

Thursday training : All together in the the ATLAS building. This will be a series of short talks on safety procedures and the MOM introduction