



The European Synchrotron

**BAG system: proposed changes**

**Scheduling: short(er) is beautiful?**

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- **Unit = shift**

- 1 shift = 8 hours
- "Integer"

- **BAG allocation:** mainly a multiple of 3 shifts distributed on several beamlines, for a 6 months period

- **BAG scheduling :** 3 or 6 consecutive shifts on a single beamline

- **BAG = 18 shifts (or more) ⇔ 3 shifts each month (at least)**

→ regular access

- **BAG < 15 shifts ⇔ 3 shifts each 2 months, can be  $\mu$ focus when interested by MAD, etc...**

→ Is the "3 shifts" block scheduling optimum for small to medium size?

- **Full remote access : no sample swap possible after 10 pm**

- **Very fast data collection possible**

### 3 options :

#### -“2 shifts” experiment (\*, \*\*):

- For small to medium size BAGs (< 21 shifts?)
- Already the case for BM29 (BioSAXS),
- Likely to be more frequent,
- Likely to be a “ 5 pm start” experiment, no full RA, hybrid accepted.

#### -“1 shift” experiment (\*, \*\*):

- Aimed for full remote access experiment
- Likely to be the day “first shift” experiment, during week day.

#### -“1/2 shift” experiment (\*):

- Aimed for full remote access experiment
- Likely to be during the first shift experiment , during week day.

(\*) exists for Industrial Users, (\*\*) exists for non-BAG Users

## “1/2 SHIFT”

- Exists already for industrial users,

- Could be well suited for “last minute demand” → should we pre-book regular slots bookable on demand?

- Ex: each Wednesday alternatively on ID23-1 and ID30A-3?
- Max 30 samples?

#### -Limits:

- A-form should be submitted 5 working days before the experiment, we should be able to schedule the experiment at last 1 week before → no new sample, no site entrance etc...

- likely to be based on a *first come/first serve* booking system and a google calendar?

-Accounting: either from each BAG allocation (BAG report/BTAP level) or from a “reserve” taken before the BAG allocations?

## CONSEQUENCES

- **Some specific setup (ex: dehumidifier, on-line microspec, etc...) may not be available : unrealistic (requires setup time, etc...) when less than 3 shifts,**
- **Possible appearance of “5 shifts” or “8 shifts” experiments with a 5 pm start,**
- **Complicates the scheduling: more constraints and (possibly) more unused slots:**
  - may force us to schedule more WE (today in principle less than 50% of the allocated beam time is scheduled during WE over a 6 months period),
  - probably “fixed” experiments scheduled closer together (less evenly distributed)
- **Maybe not always possible to fulfill all BAG demands**
- **current software tool not adapted, would require manual intervention**

## BEGINNING ?

### Test period

#### When?

**allocation round 2015-II ? (if a decision is taken today because the BAG report deadline is 1<sup>st</sup> of March)**

#### How?

**When procedure clearly defined, we will contact you.**

#### Future?

**Towards a collaborative calendar : part of the BAG allocation bookable directly through the SMIS by the BAG responsible. (but problem of resources on the computing side...)**

## INFORMATION

**Next winter shutdown likely to be extended by one week, October shutdown shortened by one week**

## DISCUSSION