

**Hall D: Fall 2018 Run Period:
Weekly Report: 10/24-10/30**

1 Plans for the Week

- i) Follow production sequence listed in Table 1
- ii) Harp Scans around 8pm each day
- iii) Work at CompCal

2 Data Acquisition

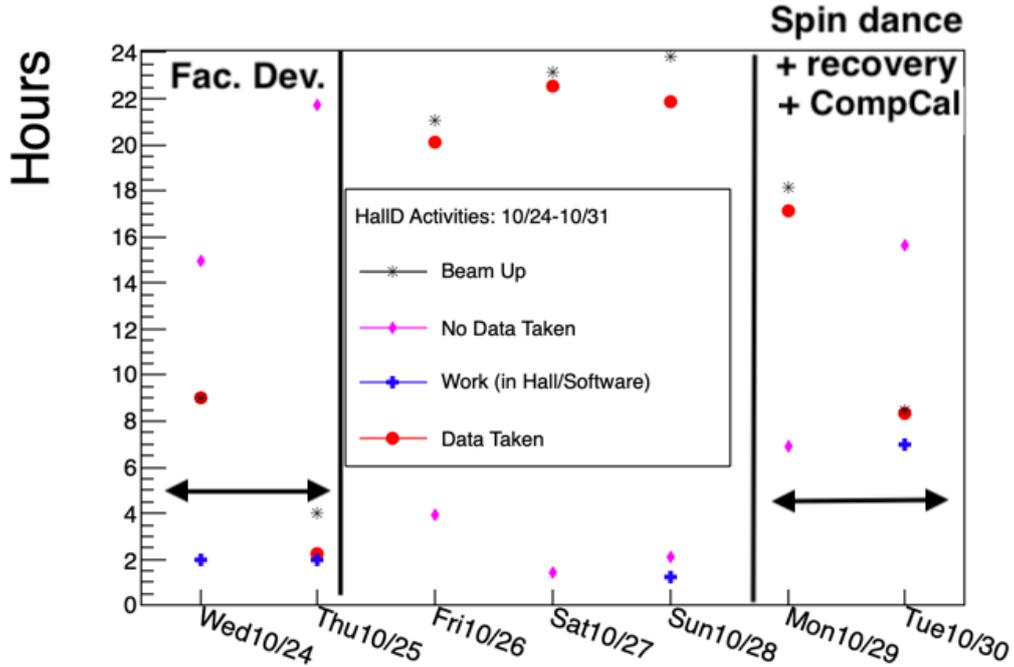


Figure 1: Hours of work (in the hall or software), data taking and beam availability. The work done on Sunday and Tuesday were related to [CompCal DAQ-studies](#) and [CompCal installed in Hall D](#).

Data taking went smoothly over the weekend (see Fig. 1). Major downtimes were related to the facility/beam development for Hall A, accelerator recovery and the Hall B spin measurements (aka Spin dance).

3 Production Sequence

Radiator	Orientation	Beam Current [nA]	$N_{\text{to acquire}}^{\text{Events}}$ [10^6]	$N \times N_{\text{to acquire}}^{\text{Events}}$
JD70-105, $47 \mu\text{m}$	PARA 0/90	200	300	8
JD70-105, $47 \mu\text{m}$	PERP 0/90	200	300	8
JD70-105, $47 \mu\text{m}$	PERP 45/135	200	300	8
JD70-105, $47 \mu\text{m}$	PARA 45/135	200	300	8
AMO	-	200	150	6
				$\sum_{\text{Events}} = 10.5 \times 10^9$

Table 1: Production Sequence for Hall D fall 2018 run period, during week: 10/24-10/30.

4 Harp-Scans

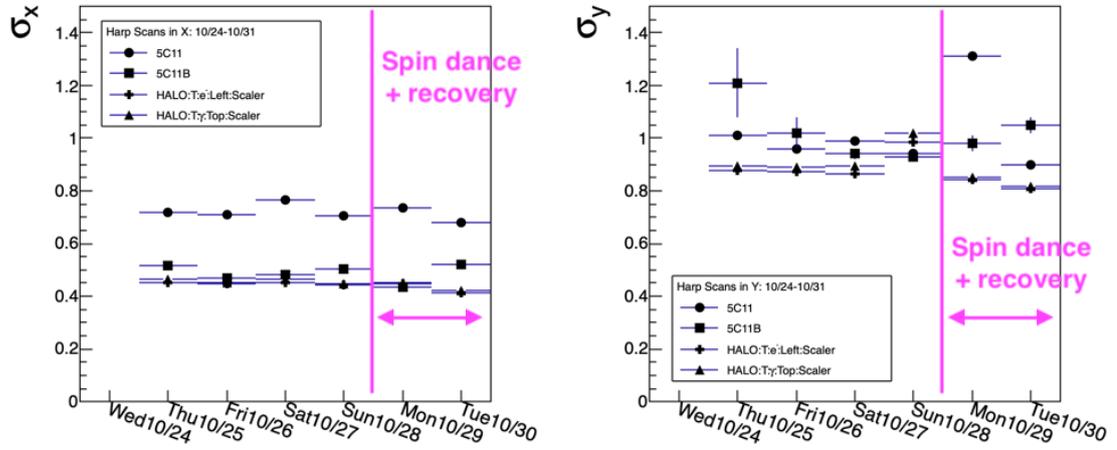


Figure 2: Results of the harp scans. **1. Note:** Scans for 5C11/B have been performed by the accelerator crew. The HALO scans were performed by the Hall D shift crew. **2. Note:** The values and their errors have been retrieved from fits to the beam profiles in X and Y. Examples of harp scans and the corresponding fits can be found [here](#) or [here](#).

5 Acknowledgements

Special thanks to:

- Accelerator (shift) crew
- RadCon
- Hall D (shift) crew