Overview

• Startup after septum bakeout waiting week

• before beam: Movement studies of the target magnet: Its perfectly elastic

• beam came on Friday the 23th at 22:00, it became stable the following Saturday at 12:30

• All detectors were set up and fine by that time, a threshold scan of BMS 5 and 6 was done.
Efficiency

- 11009 spills physics + taken
- 13075 spills physics - taken
- SPS efficiency: 80.6%
- Beam use: 98.2%
- Spectrometer efficiency: 89.3%
Problems

- Water, once mistaken for smoke..
- DAQ sometimes went to throttle mode, because of failing disks in pccoeb16
- an annoying number of straw trips in the evenings
**Efficiency**

Period report 23. July to 30. July

J. Hannappel

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**Efficiency of PS/SPS**

- **a**: Total SPS Circle (exclude scheduled MD): 35822.0
- **b**: SPS spill with T6 current >30.0: 28856
- **c**: Sum of T6 current 3561548.2
- **d**: \( \frac{b}{a} \) PS/SPS Efficiency: 80.6%

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**Muon Beam In HALL**

- **f**: SPS spill In Hall with Muon Count >100000.0: 28341
- **g**: Sum of In Hall Muon Count: 5357741702750.0
- **h**: \( \frac{f}{b} \) SPS Spill Get in 888: 98.2%

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**Use of SPS/Inhall Spill in COMPASS**

- **i**: Spill used with ion chamber counting >100.0: 25316
- **j**: \( \frac{i}{f} \) Inhall spill used: 89.3%
- **k**: \( \frac{i}{b} \) SPS spill used: 87.7%

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**Distribution of used spills:**

- field_rotation runs used 997 spills, 3.9%
- random_trig runs used 6 spills, 0.0%
- beam_test runs used 122 spills, 0.5%
- physics- runs used 11009 spills, 43.5%
- physics+ runs used 13075 spills, 51.6%
- detector_test runs used 2 spills, 0.0%
- DAQ_test runs used 8 spills, 0.0%
- alignment runs used 94 spills, 0.4%

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**Graph:**

- DAQ WORKING TIME (green) / BEAM NOT IN HALL TIME (black) / SPS WORKING TIME (blue)