

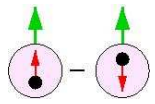
# Run Coord. Report: Jan 23 - 30, 2009

Dustin E. McNulty

UMass

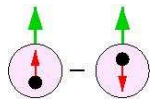
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February 3, 2009



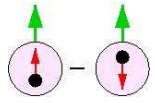
## Experiment Run Goals Status

Kinematic	$\lambda/2$ Plate	Q Expect (C)	Q Accum (C)	Status
$\pi^-$ Vert	IN	3.5	4.6	Done
$\pi^-$ Vert	OUT	3.5	4.0	Done
$\pi^-$ Trans	IN	3.5	5.3	Just finished
$\pi^-$ Trans	OUT	3.5	4.4	Done
$\pi^+$ Vert	IN	3.5	5.1	Done
$\pi^+$ Vert	OUT	3.5	3.7	Done
$\pi^+$ Trans	IN	3.5	4.5	Done
$\pi^+$ Trans	OUT	3.5	3.7	Done



## Timeline of Notable Events

- 1/22 swing – LHRS polarity change from (+)  $\rightarrow$  (-)
- 1/23 owl – MCC had big problems with ARC4 PS (lost entire shift)
- 1/23 day – Collected  $\sim 0.3$  C BB positron data for  $\pi^-$  Vert (IN)
- 1/23 day – BB polarity change from (+)  $\rightarrow$  (-)
- 1/23 swing – Resume production running  $\pi^-$  Vert (IN)
- 1/24 day – Møller measurement:  $e^-$  pol =  $79.2 \pm 0.2 \pm 2.0$
- 1/25 owl – BB DAQ PS failures (fastbus ROC9/10 and camac crate)
- 1/28 swing – Switch target spin from Vert to Trans-in-plane
- 1/28 swing – Collect 0.14 C H<sub>2</sub> reference cell for  $\pi^-$  Trans (IN)
- 1/28 owl - 1/30 day – smooth production running

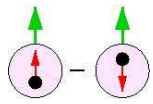


## Weekly Beamtime Accounting

- 160 hours scheduled
- 118 hrs (74%) CW Beam on Target
- 106 hrs (66.3%) Acceptable Beam in Use

### Major causes of lost time

- 6 hours BB DAQ PS failures
- 2 BB dipole polarity change
- 1 target heater malfunction repair



## Hall Accesses

- Fri 1/23 13:15 - 14:15: BB polarity (+)  $\rightarrow$  (-) (Todd, Scot)
- Fri 1/23 18:30 - 19:00: Power cycle BB DAQ (Kalyan)
- Sat 1/24 22:00 - 22:45: Replace fuse for target heater (Yi)
- Sun 1/25 00:30 - 06:30: PS failures for BB DAQ (Kalyan, Jack)
- Tue 1/27 10:00 - 15:30: Work in hall during beam studies: reference cell replacement (Joe) and Laser alignment (Yi)