

Beams Week in Review



- Accelerator Performance
 - Lost stores
 - D0, CDF, Tevatron Access
 - Pbar transfers to Recycler
 - Tevatron Studies
 - Good weekend

Beams Week in Review



- **Lost Stores**
 - 1808 terminated after 12.4 hrs due to CHL fire
 - 1810 lost due to quench at A1 during squeeze
 - 1817 lost due to quench at A1 at flattop
 - 1823 lost after 11.3 hrs due to B2 HFU
 - 1826 terminated after 14.2 hrs TRF heater pumps turned off
- **Shutdown Access**
 - D0 cooling fan repair
 - Wet engine repair
 - Instrumentation

Beams Week in Review



- Pbar Transfers to Recycler
 - Stacking efficiency (MI->RR) $\sim 88\%$
 - Stacking efficiency(Acc->RR) overall $> 75\%$
 - Stored $\sim 75E10$ with lifetime > 100 hrs
- Tevatron Studies
 - Transverse Dampers
 - Smoothed orbits up the ramp and thru the squeeze
 - Adjusted tunes and coupling up the ramp and low beta
 - A0 and C0 aperture scans at to 980 GeV

Beams Week in Review

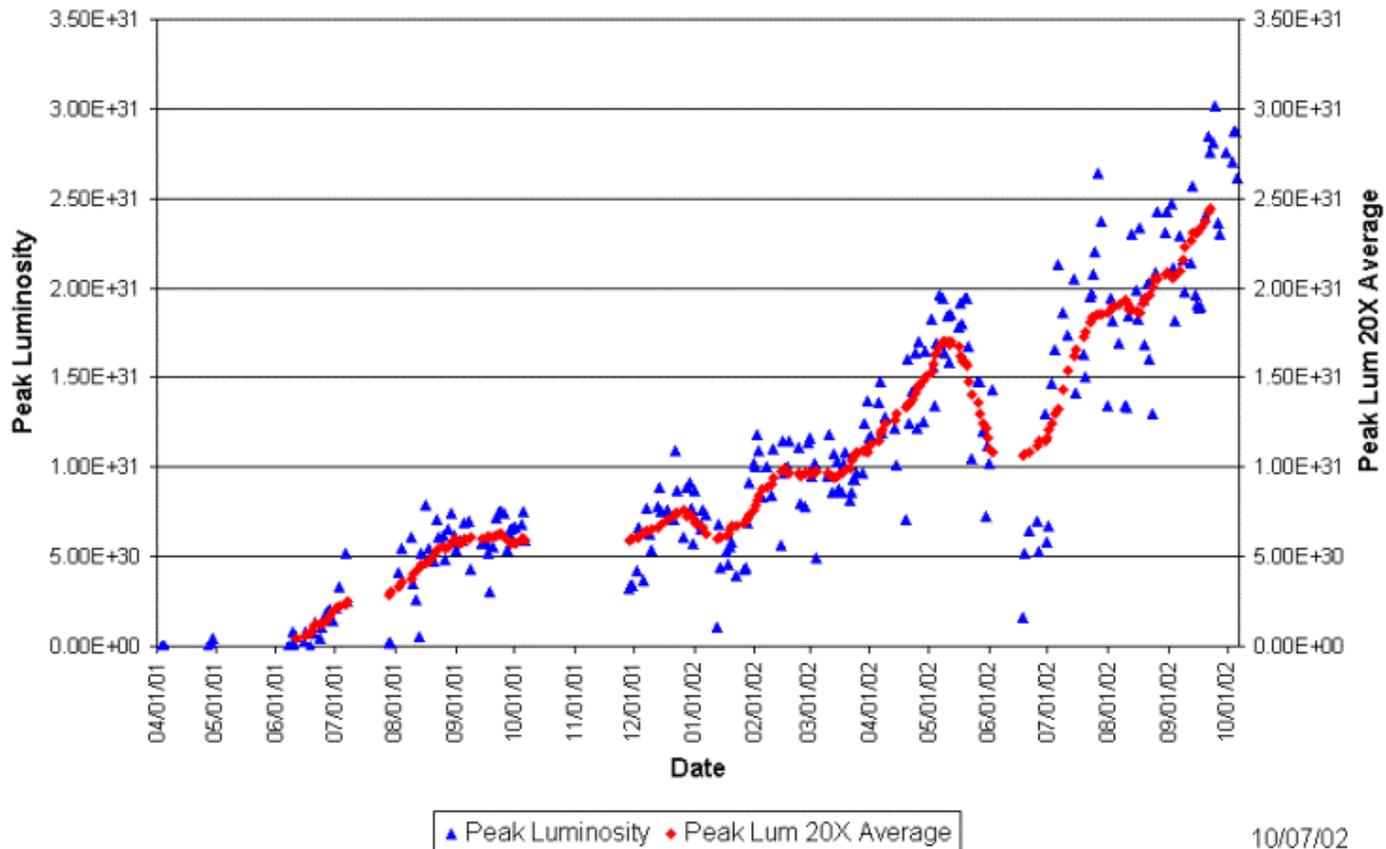


<u>Store</u>	<u>Initial Luminosity</u>	<u>Duration</u>	<u>Termination</u>	<u>Comments</u>
1808	2.74E31	12.4 hr	CHL fire	CHL fire,FBI recal
1810	---	0	Lost on squeeze	
1817	---	0	Lost on FT	
1823	2.63E31	11.3 hr	B2 HFU	A1,
1824	2.78E31	14.0 hr	intentional	No BLT, H damper
1826	2.83E31	14.2 hr	Abort RF trip	No BLT, H damper
1828	2.61E31		intentional	No BLT, H damper
1830	2.36E31		intentional	No BLT, H damper on

Peak Luminosity



Collider Run IIA Peak Luminosity

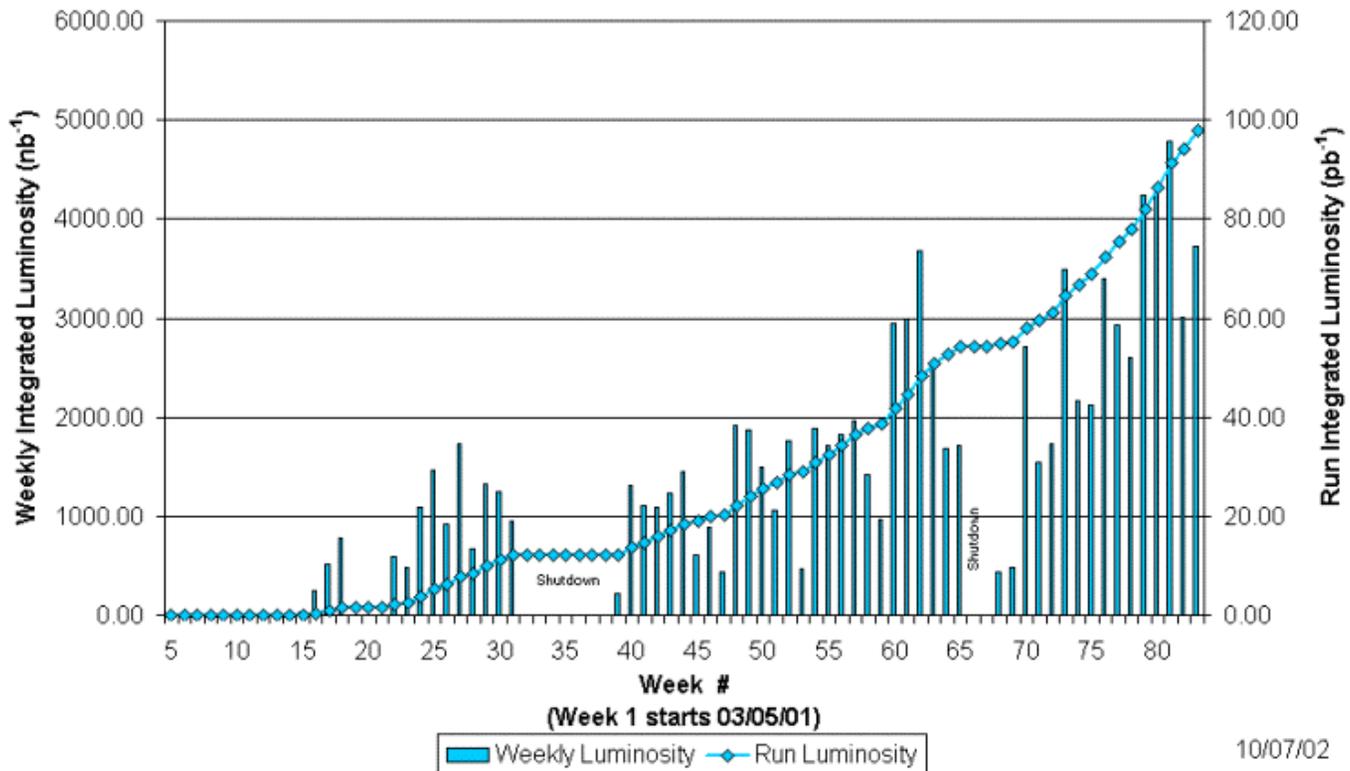


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Integrated Luminosity



Collider Run IIA Integrated Luminosity



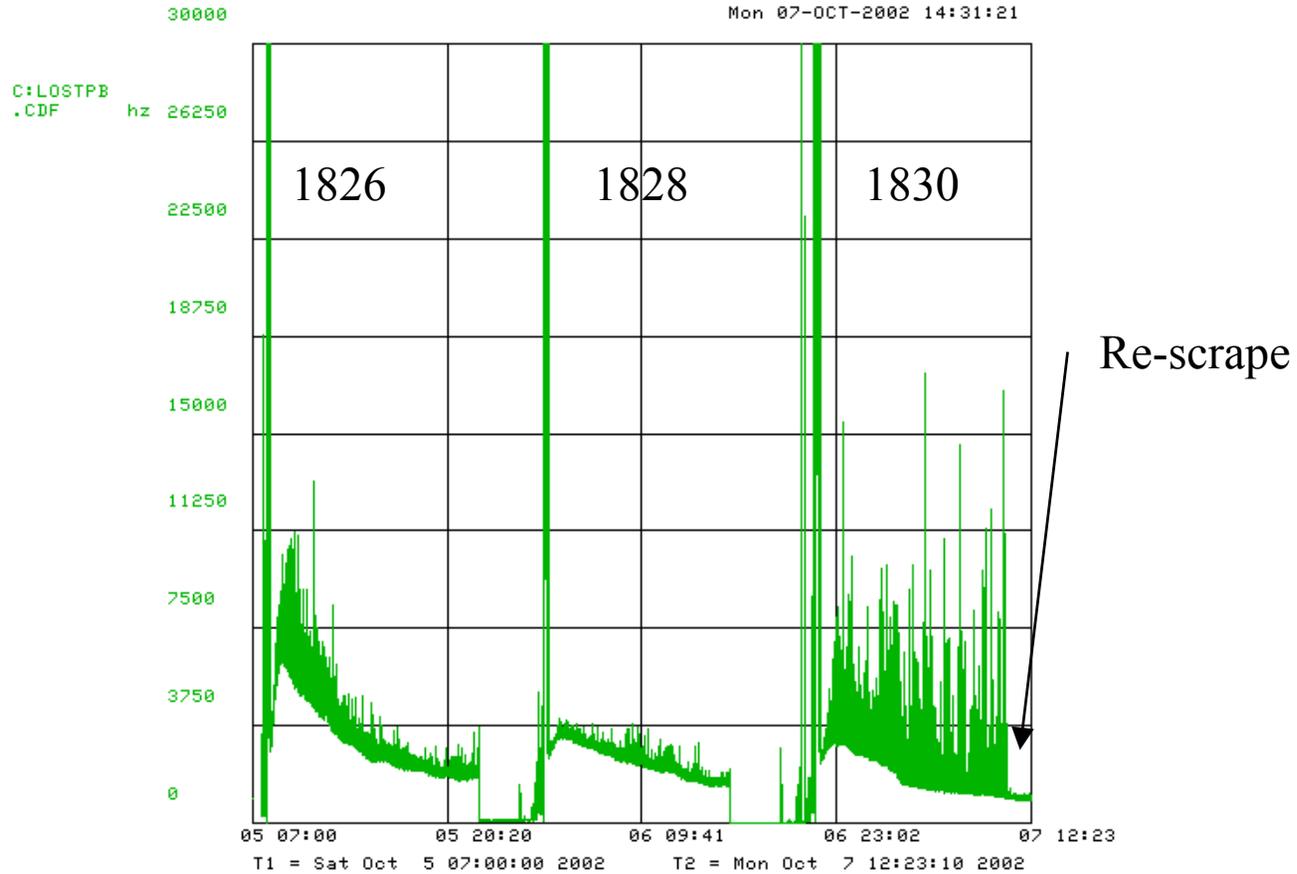
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Beams Week in Review



- Recent Changes
 - Pbar FBI recalibration up 15% (9/28->#1808)
 - New A1 optics with store 1823 (
 - Improvements to pbar coalescing , now 86%
- Current Near Term Issues
 - Last three stores, Tev BLT not operational
 - Losses at beginning of store (damper related???)
 - Spikes in pbar losses during store (cause under investigation)
 - Lower proton bunch length trials

Spikes in $p\bar{b}$ losses



Schedule for this week



- Stack 'n Store Week
 - *Adiabatic changes*
 - *Increase proton intensity*
 - *Horizontal damper (on/off)*
 - *Lower proton longitudinal emittance*
 - *Larger pbar stacks*
- Pbar shots to Recycler
 - *Off the bottom*
 - *Dedicated 20-40 mA stacks (if no impact on HEP)*

Schedule for this Week

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Update 10/7/02 10:31 AM	MONDAY 10/7/02	TUESDAY 10/08/02	WEDNESDAY 10/09/02	THURSDAY 10/09/02	FRIDAY 10/10/02	SATURDAY 10/11/02	SUNDAY 10/12/02
Owls 0000 to 0800	←		Stack and Store	→			
DAYS		NIF - PT	NIF - PT		NIF - PT		
0800 to 1600	←		Stack and Store	→			
EVES							
1600 to 2400	←		Stack and Store	→			

Schedule can be found at <http://www-bd.fnrl.gov/operations/schedules.html>