

Diffraction Heavy Flavor Production

Thesis Student: Ana Carolina Assis Jesus

Diffraction cross section measurement.

Working Group: Andre Sznajder, Alberto Santoro, Heidi Sceldman and Andrew Brandt

Process/Topologies: Single Diffraction

Trigger type: ?

Monte Carlo: Not Well defined

Literature:

- 1)K. Hatakeyama *Diffraction Physic at the Tevatron*. FERMILAB-Conf-00/212-E CDF/D0
- 2)A. Santoro *The Future of Diffraction at Tevatron*
- 3)P. Marage *Hadronic structure, low x physics and diffraction*. (hep-ph/9911426)
- 4)K. Barone, E. Predazzi - Springer (2001) *High-Energy Particle Diffraction*.
- 5)D. Lucchesi for the CDF and D0 Collaborations *Bs Physics and Prospects at the Tevatron* (hep-ex/0307025).
- 6)T. Affolder et al., *Measurement of b Quark Fragmentation Fractions in p \bar{p} Collisions at $\sqrt{s}=1.8\text{TeV}$* Phys. Rev Lett. 84, 1663 (2000).
- 7)M. Artuso *B Physics in the Next Millenium* (hep-ph/9812372).
- 8)A. Solodsky *Diffraction heavy flavor production at CDF*
- 9)The CDF Collaboration - *Observation of diffraction J/ ψ production at the Fermilab Tevatron* (hep-ex/010707)

Schedule to statr: September 1st.