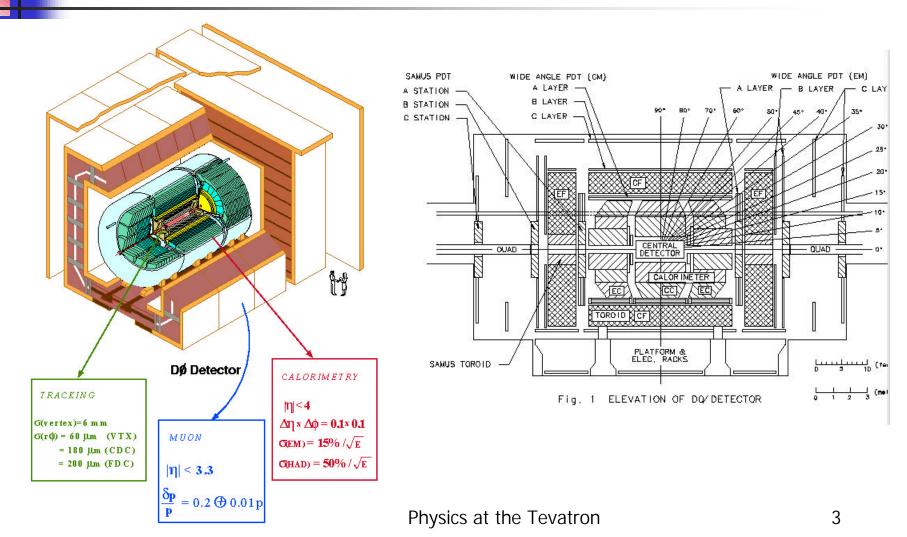
D0 results on Quarkonium production

A.Mayorov for D0 Collaboration

J/psi production modes

- Direct production
 - Color singlet model
 - Color octet model
- Decays of higher mass charmonium states
- b quark decays

The D0 Run I detector

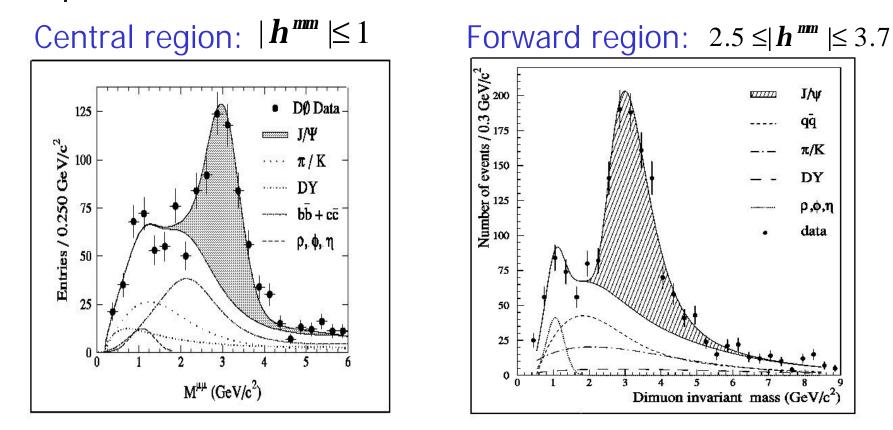


Event selection

- Two muons with $|\boldsymbol{h}_m| < 1$. and $|\boldsymbol{h}_m_m| < 0.6$
- Dimuon trigger
- Energy deposition >1GeV
- Matching tracks in central tracker
- At least one hit in the innermost layer of the muon detector
- region $80^{\circ} < f_m < 110^{\circ}$ excluded
- 1146 events for the luminosity of 6.6 pb^{-1}

- 2.2< $|\boldsymbol{h}_{m}|$ <3.3, 2.5< $|\boldsymbol{h}_{m}|$ <3.7
- Single or dimuon trigger in single interuction event ($p_T^m > 3$ Gev/c)
- At least 2 reconstructed muons with p_T^{m} < 150GeV/c
- At least 15 hits on a track
- Energy deposition in the calorimeter>1.5GeV
- Traverse magnetic field integral
 > 1.2 Tm
- 1779 event for integrated luminosity of 9.8 pb⁻¹

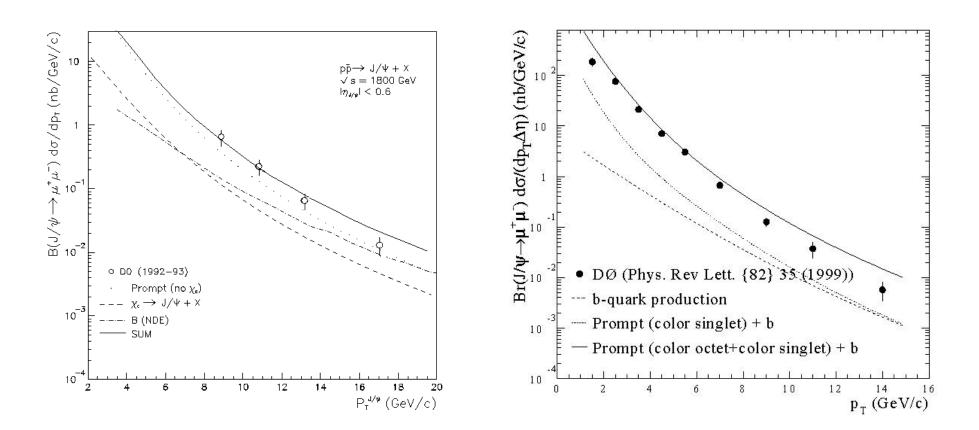
Dimuon mass distibutions



 $1.0 \le p_T^{mm} \le 16 \ GeV/c$

Workshop on B Physics at the Tevatron

J/\mathbf{y} p_T cross section



Workshop on B Physics at the Tevatron

