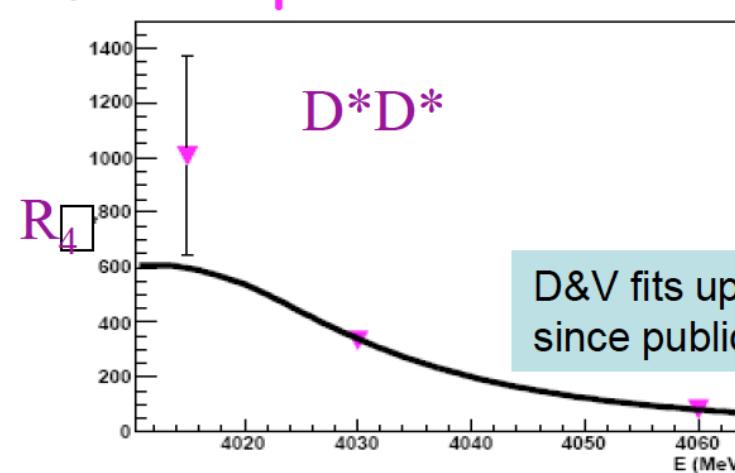
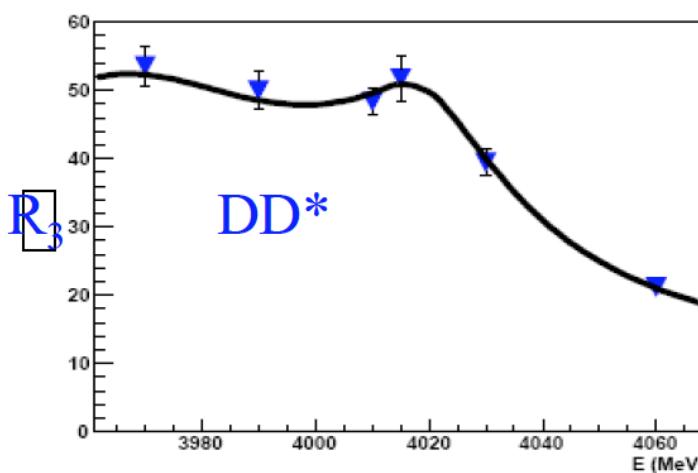
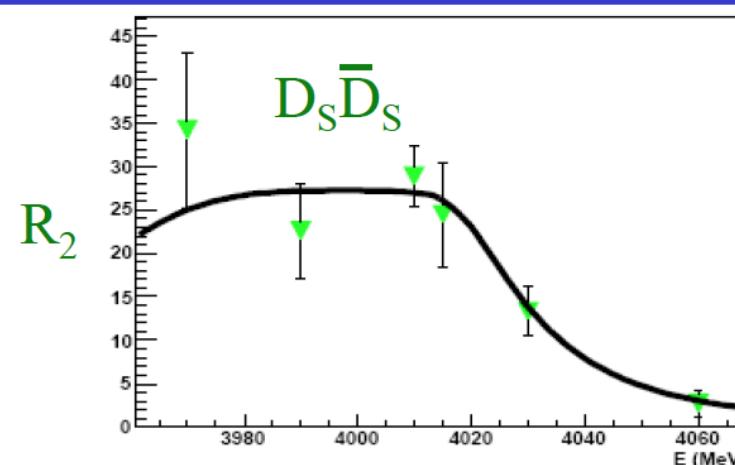
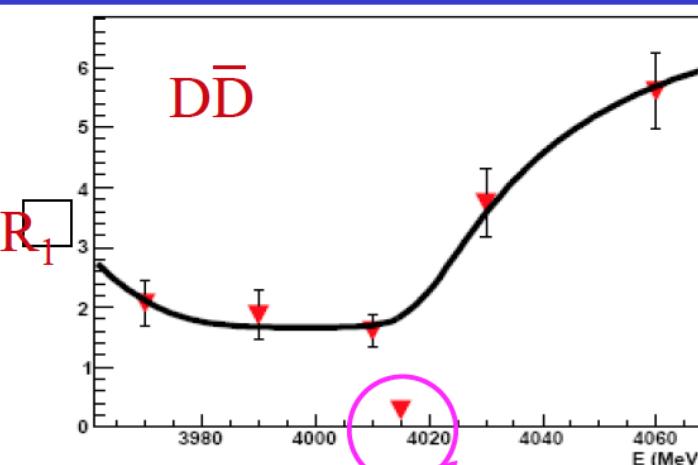


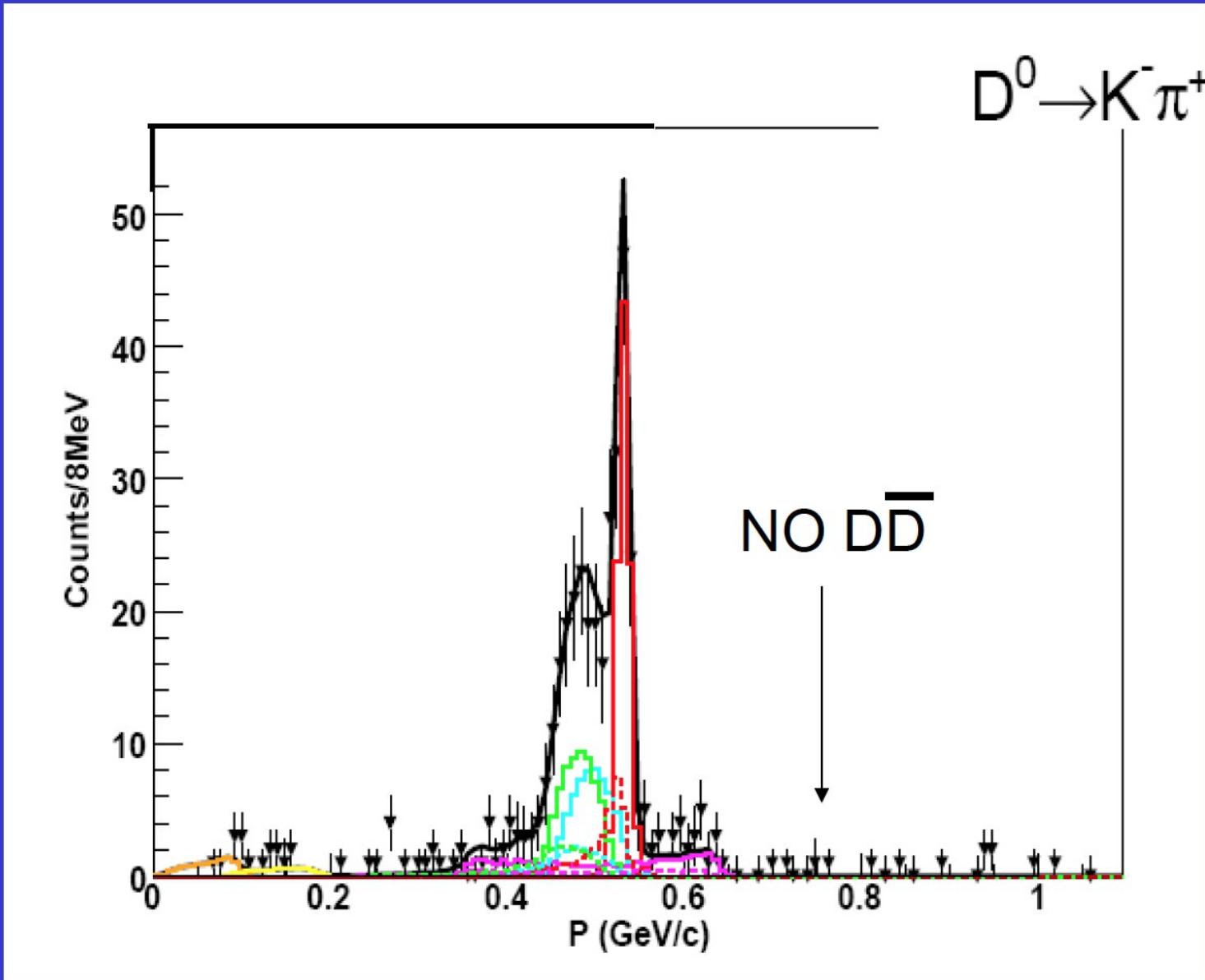
New Resonance at D^*D^* Threshold?

- Model of Dubynskiy & Voloshin [Mod. Phys. Lett. A21, 2779 (2006)]
- Express exclusive channels in terms of dimensionless R_k
- Parametrize R_k in terms of expected threshold behavior & relative production rates in the presence of a $\psi(4040)$



- Fit to CLEO data: one large deviation near D^*D^* threshold
- This model needs interference with a new narrow resonance at $E_{cm} = 4015$ MeV to explain dip in DD

“Missing” DD @ $E_{cm}=4015$ MeV



Momentum Spectra

Do NOT reconstruct D^* ;
instead use D momentum spectrum.

2-body production shows up as peaks &/or Doppler-smeared peaks

Example at right:
 $D^0 \rightarrow K^- \pi^+$ momentum spectrum after D^0 -sideband subtraction

