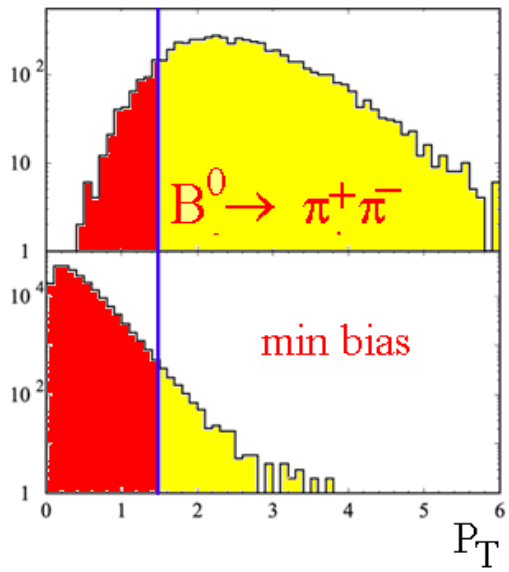
Why HERA-B needs high-P_T trigger

Primary goal of HERA-B:
sin(2β) from $B^0 \rightarrow J/\psi K^0_s$

two lepton trigger

A lot of interesting physics out there:

$B^0 \rightarrow \pi^+\pi^-$ $\Rightarrow$ sin(2α)
$B^0 \rightarrow K^+\pi^-$ $\Rightarrow$ 2γ



High-P_T trigger proposed in 1994

- ITEP (Moscow)
- Cincinnatti/Princeton
- Hamburg II
- Dortmund