

$$p_T > 3.5 \text{ GeV}$$

$$|\eta| < 2.4$$

kaon

High-purity track

Veto PF electrons and muons

$$\Delta z(\text{K}, \mu_{\text{trig}}) < 0.1 \text{ cm}$$

$$\Delta R(\text{K}, \mu_{\text{trig}}) > 0.1$$

Vertex fit probability > 0.01

$$\text{DCA}(\text{K}, \text{vertex}) < 0.1 \text{ cm}$$

$$\cos(\alpha_{2D}) > 0.95$$

B meson

$$\Delta R(\text{J}/\psi, \text{K}) < 0.8$$

$$m(e_1, \text{K}) > 2 \text{ GeV}$$

$$m(e_2, \text{K}) > 2 \text{ GeV}$$

$$4.5 < m(\text{J}/\psi, \text{K}) < 6.0 \text{ GeV}$$