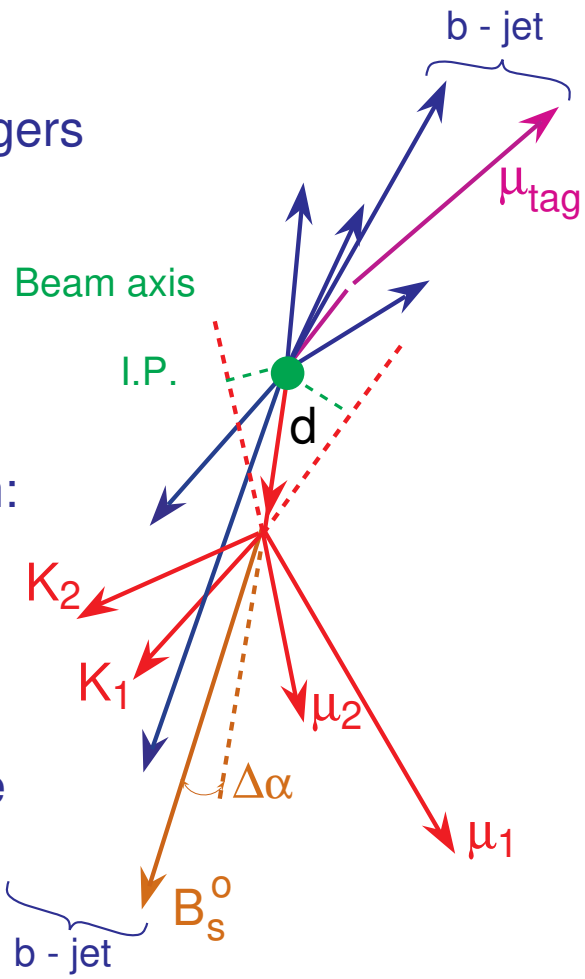
$B_s^o \rightarrow \psi\varphi \rightarrow \mu^+\mu^-K^+K^-$

Asymmetry in this channel $\varphi_{ts} = \eta\lambda^2$

Set of cuts :

- single muon and two- muon triggers
- $p_T^{K_1,K_2} > 1$ GeV/c
- $p_t^B > 10$ GeV/c
- full secondary vtx reconstruction: $d > 3\sigma_{||}$
- $\Delta\alpha$ cut: ≤ 100 mrad
- tagging with associated lepton on same side associated charge



Backgrounds :

- main combinatorial background from $B \rightarrow \psi + h^+h^-$
- background due to $B_d^0 \rightarrow \psi K^*$