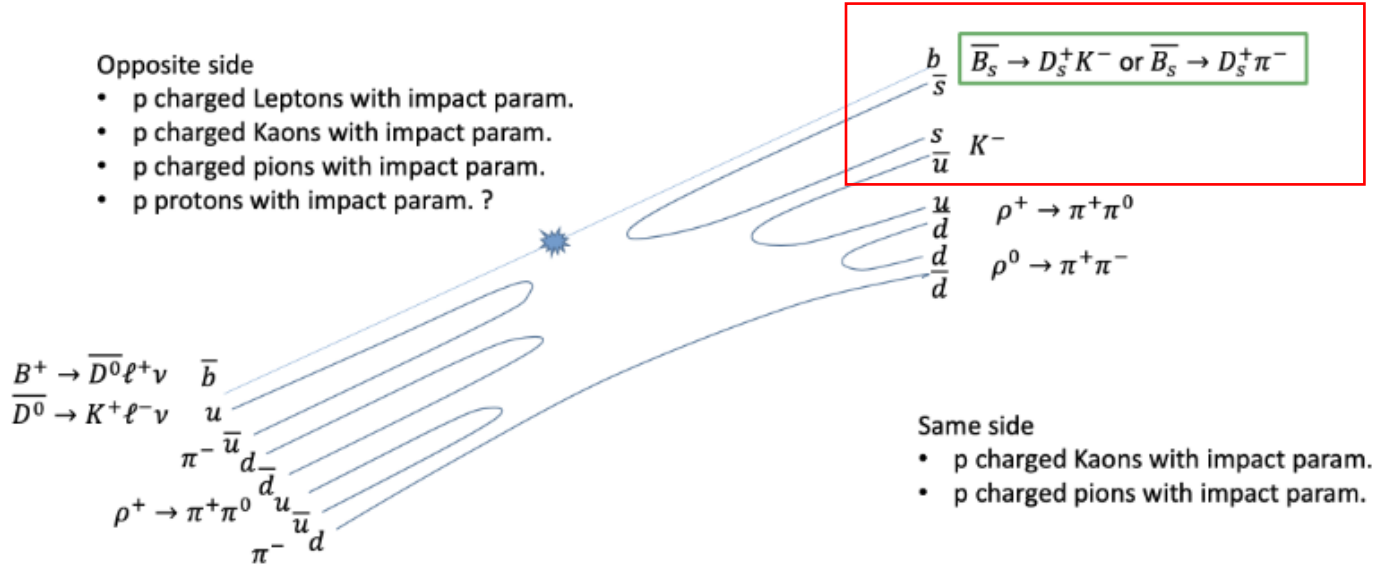


SSK tagging in Whizard



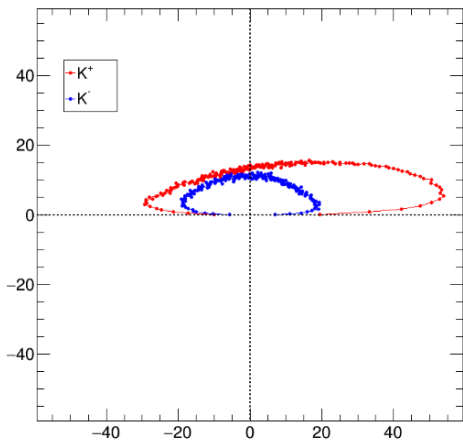
SSK tagging in Whizard

Polar plot of angular distribution between Bs0 and **leading kaon in all directions**

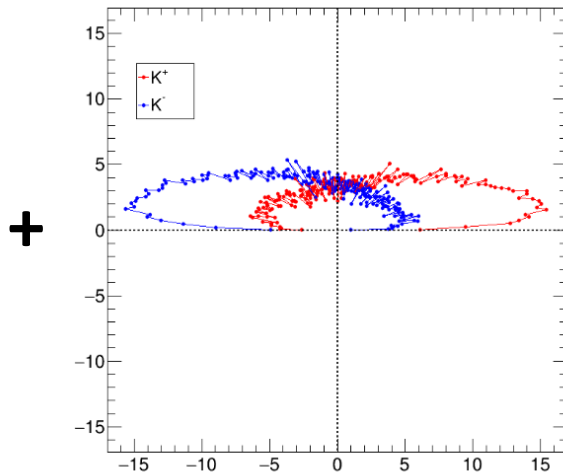
The leading kaon share the same vertex with Bs0

$$R = \sqrt{N}$$

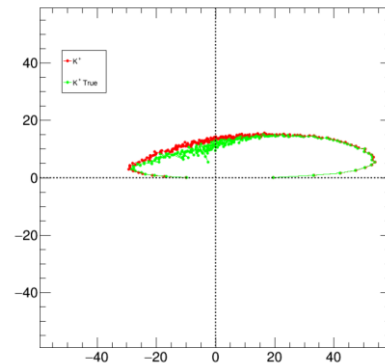
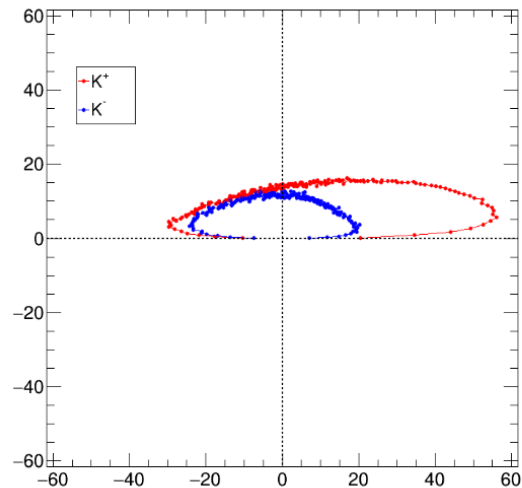
Count events without anti_Bs0



Count events with anti_Bs0



Count all events

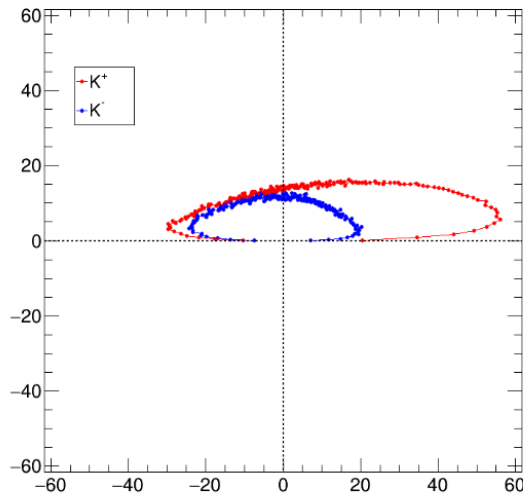


SSK tagging in Whizard

$$\varepsilon_{tag} = \frac{N_R + N_W}{N_R + N_W + N_U} \quad \omega = \frac{N_W}{N_R + N_W}$$

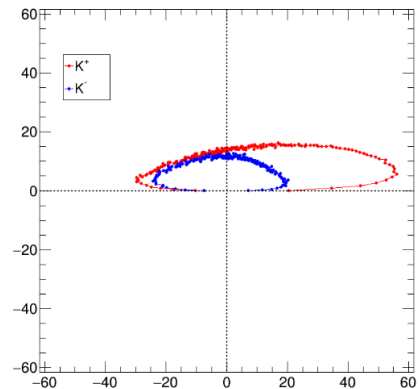
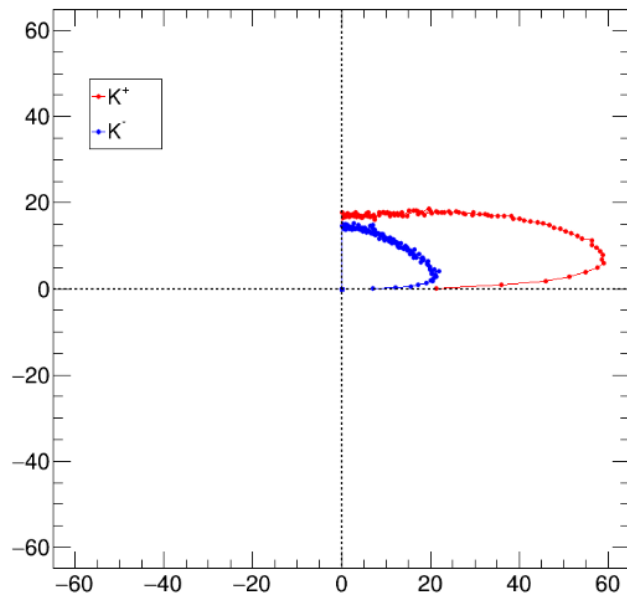
$$\varepsilon_{eff} = \varepsilon_{tag} D^2 = \varepsilon_{tag} (1 - 2\omega)^2$$

```
('count Bs0:', 244168)
('tag', 0.7250090101897054)
('mis', 0.27569708062183657)
('eff', 0.14590603223598075)
```



SSK tagging in Whizard

Polar plot of angular distribution between Bs0 and **leading kaon in the same direction**
The leading kaon share the same vertex with Bs0



```
('count Bs0:', 244168)  
( 'tag', 0.5745347465679368)  
( 'mis', 0.19963930055673174)  
( 'eff', 0.2073301702334758)
```