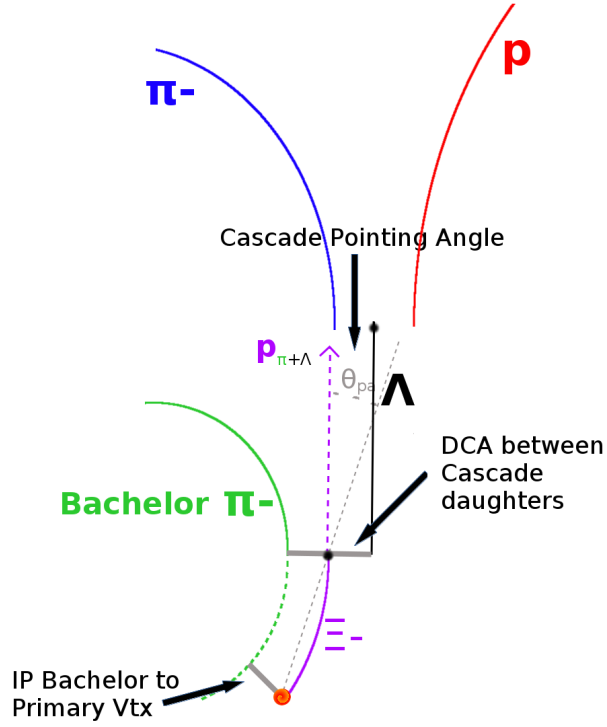


## 0.1 Cascade Reconstruction

The reconstruction of  $\Xi$  particles is one step above V0 reconstruction. V0 particles are topologically reconstructed by searching for the charged daughters' tracks into which they decay. With  $\Xi$  particles, we search for the V0 particle and charged daughter into which the  $\Xi$  decays. In the case of  $\Xi^-$ , we search for the  $\Lambda$  (V0) and  $\pi^-$  (track) daughters. We will refer to this  $\pi$  as the “bachelor  $\pi$ ”. The reconstruction of  $\Xi$ , and the specific cuts used will be included in future versions of this note.



**Fig. 1:**  $\Xi$  Reconstruction