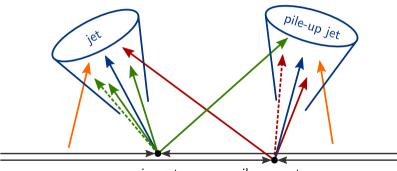
associated to main vertex
associated to pile-up vertex
not associated to any vertex



main vertex

pile-up vertex