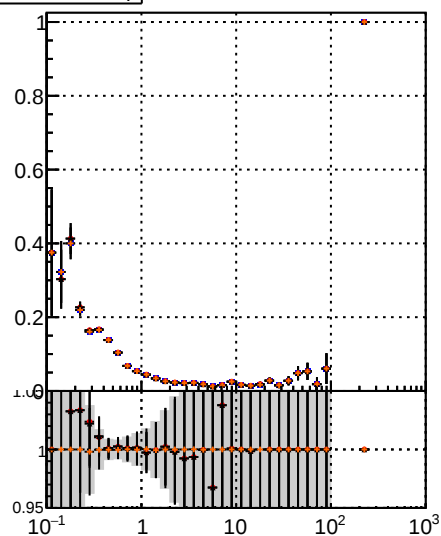
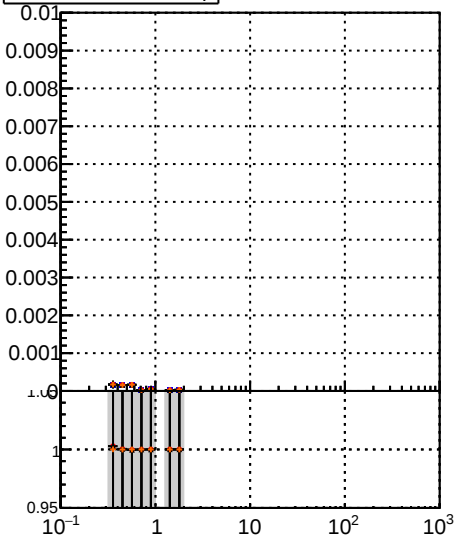
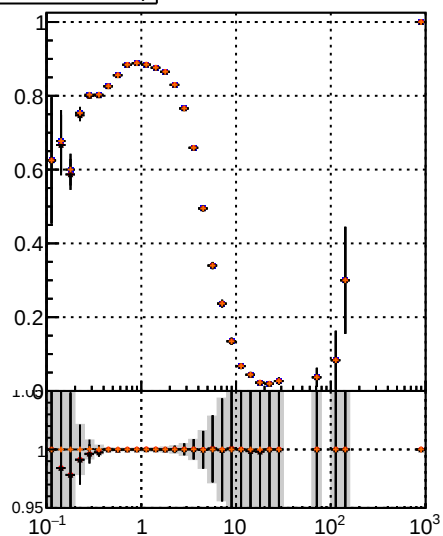
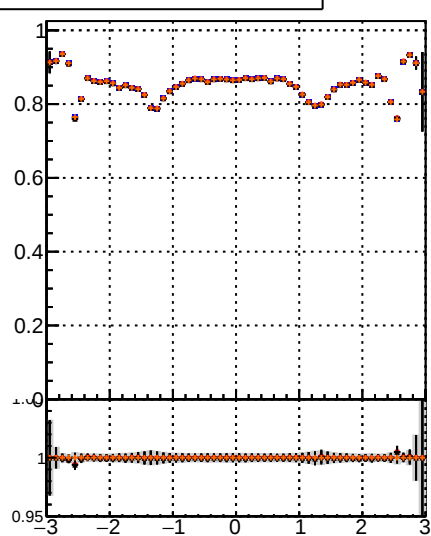
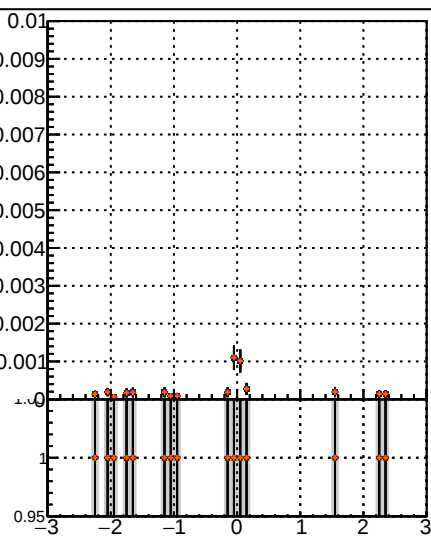
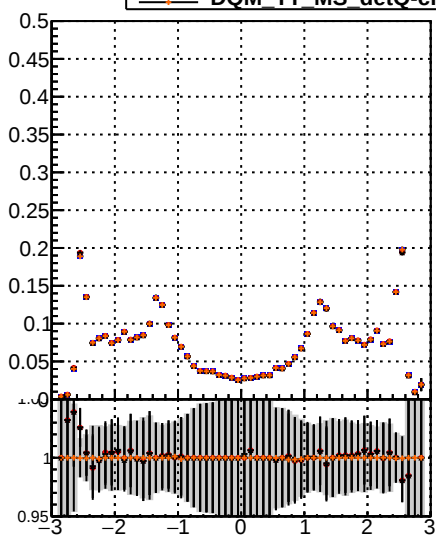
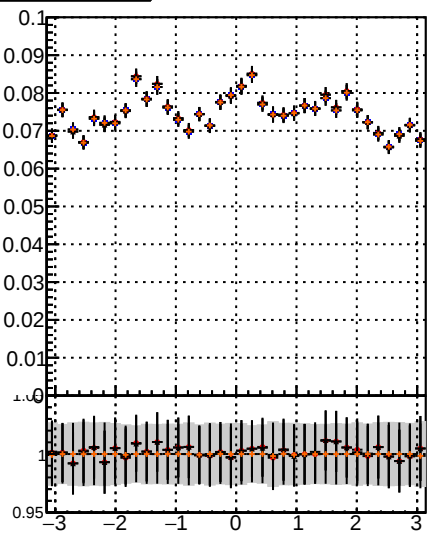
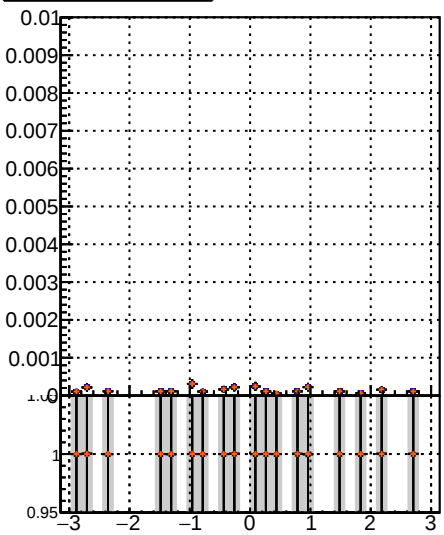


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

— p_T MS $\sqrt{s}$ det0-dpdq
 — p_T MS $\sqrt{s}$ det0-chiz
 — p_T MS $\sqrt{s}$ det0-chiz

Fake rate vs ϕ Duplicates Rate vs ϕ Pileup rate vs ϕ 