
Update: joint constraint tuning

Nils Breer

4. Oktober 2023

TU Dortmund, AG Albrecht

loosen the Tx uncertainty (old ($1\mu m$),
 $2\mu m$, $10\mu m$)

500k events, loose particle selection

current uncertainties: 0.01 0.0012 0.0019

0.0004 0.00000047 0.00017 [mm, rad]

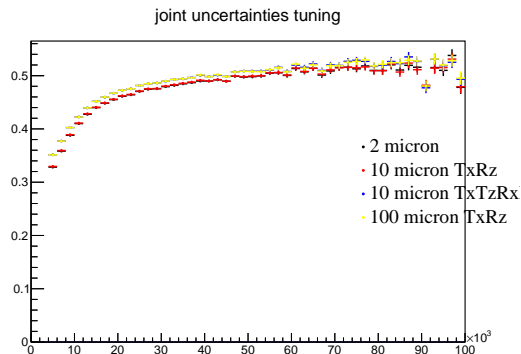
tuned: $\mu m, \chi^2/\text{dof}$: 1.02

old: $1\mu m, \chi^2/\text{dof}$: 914.09

$10\mu m, \chi^2/\text{dof}$: 55.49

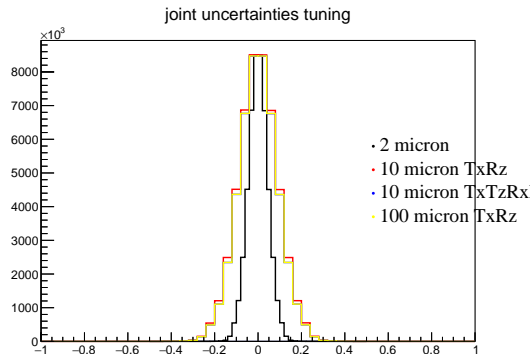
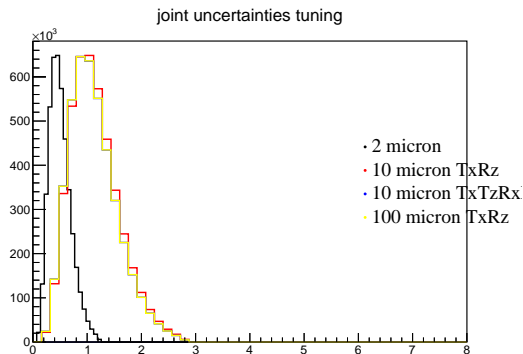
$2\mu m, \chi^2/\text{dof}$: 492.67

χ^2 probability vs. momentum

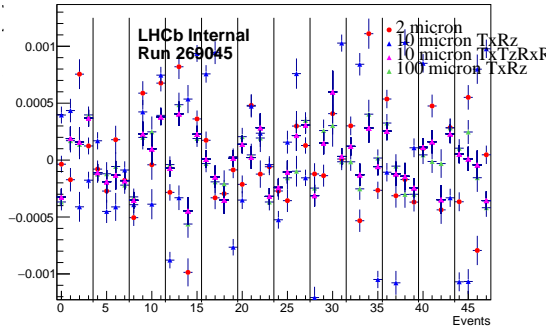


χ^2/dof

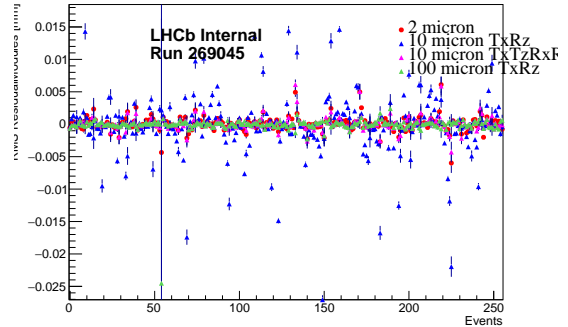
FTResidual

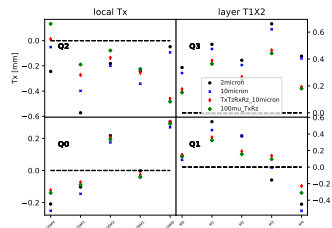
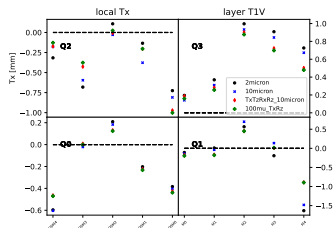


Mean Residual (rms-unbiased) in each quarter

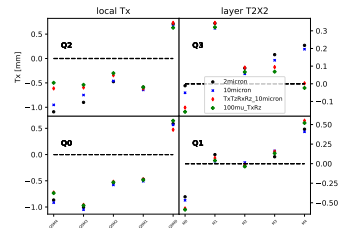
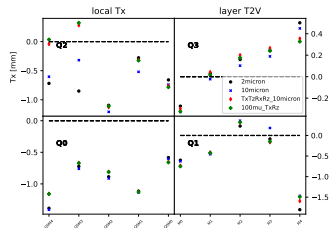
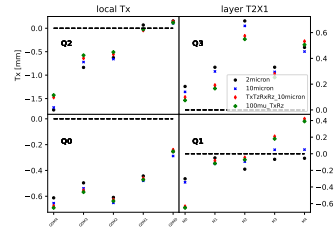
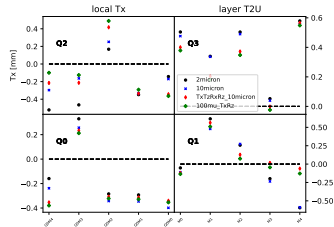


Mean Residual (rms-unbiased) in each module





T2 constants



T3 constants

