

Cross Check for DC radius

by LDT

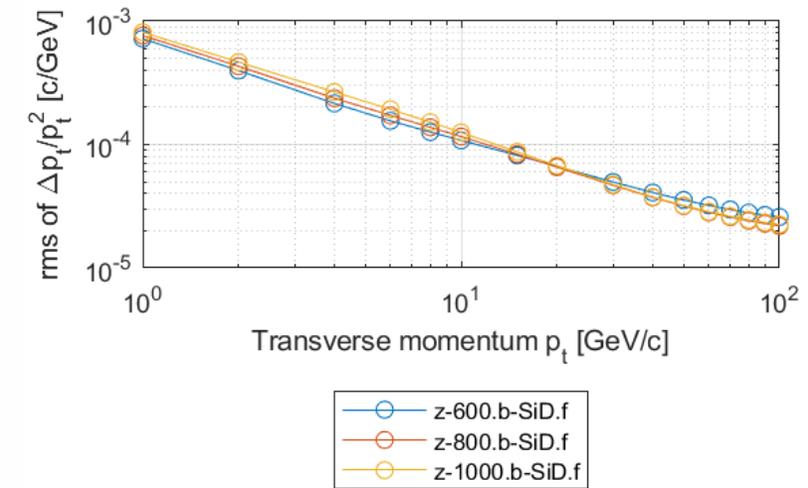
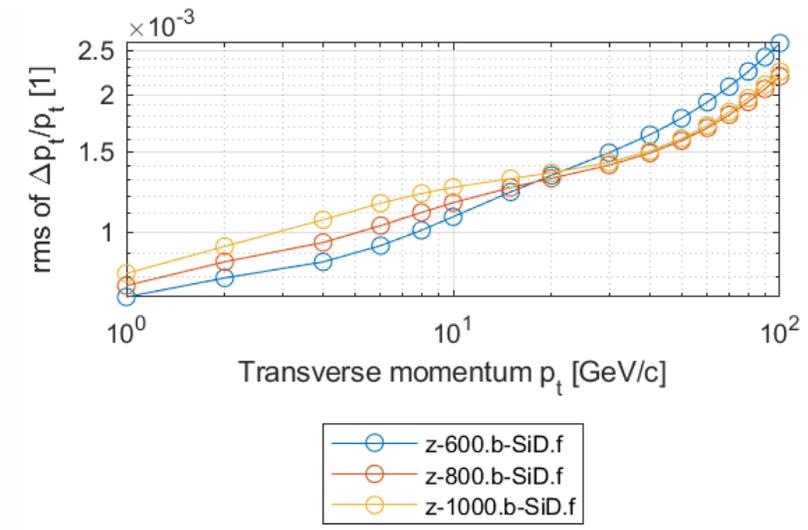
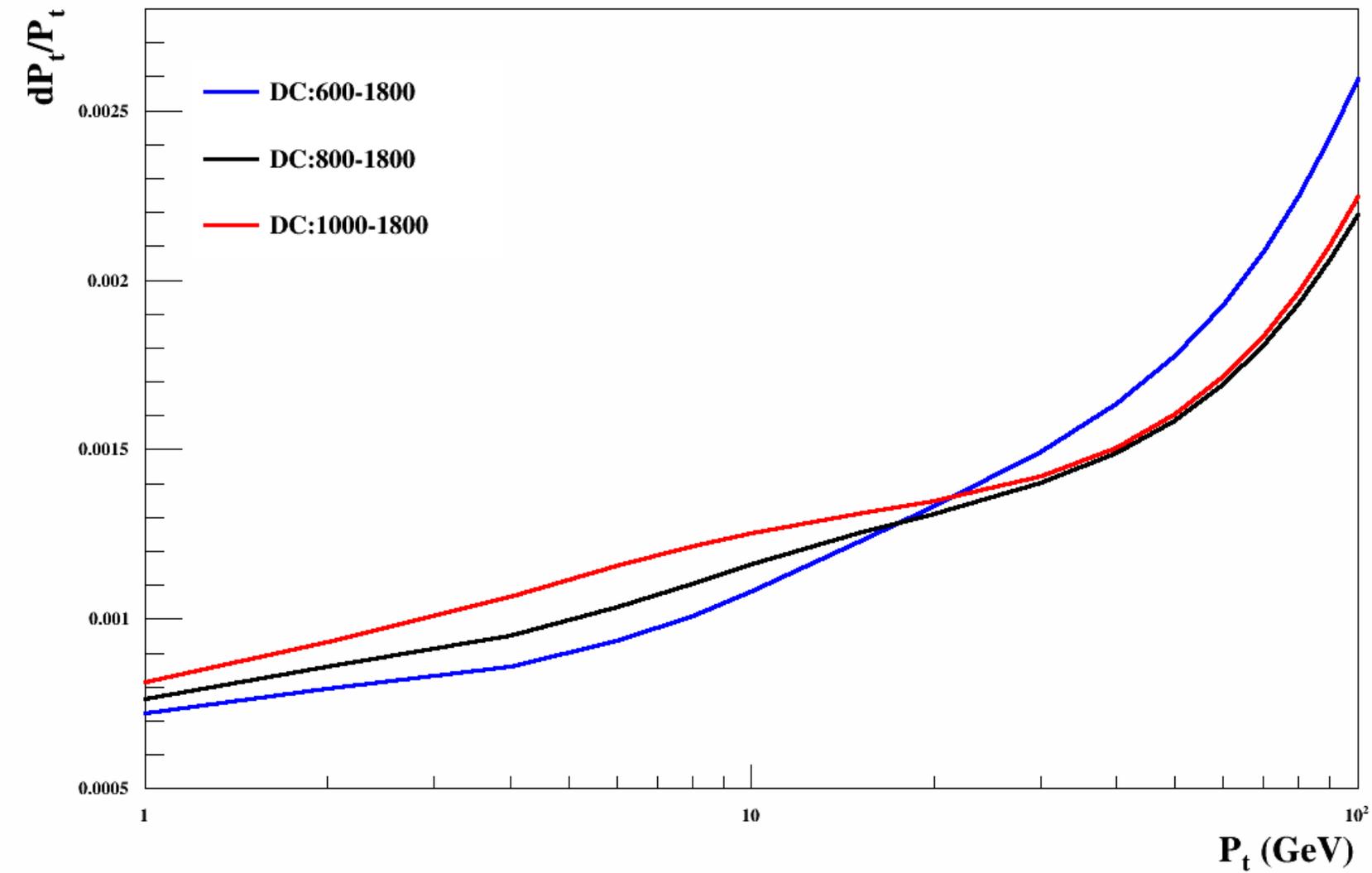
Hao Liang (Jilin University)

2022.5.6

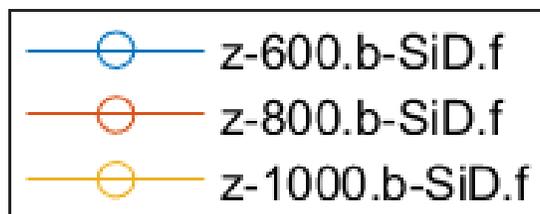
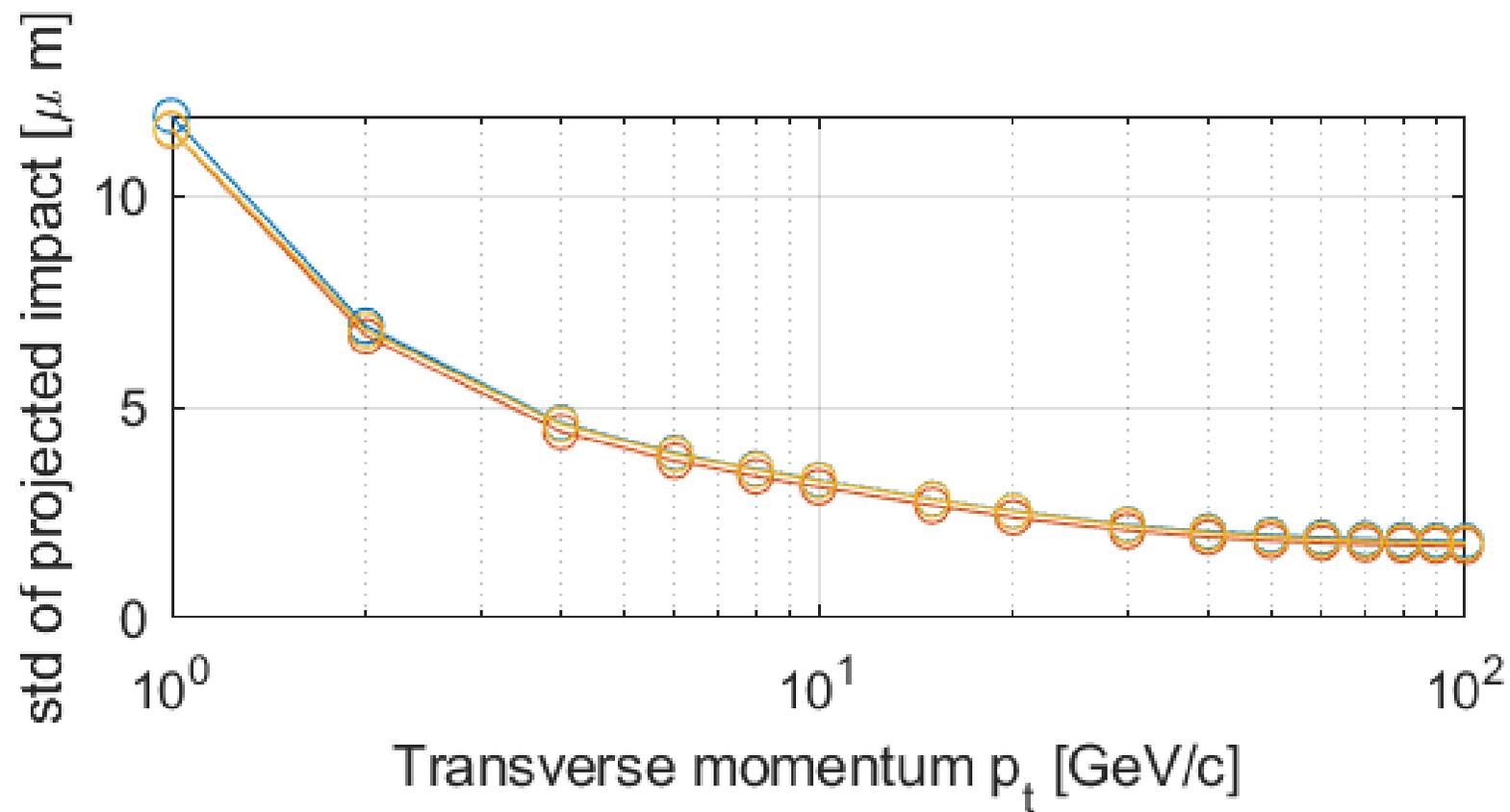
Parameters

Layers	Radius(mm)	$\sigma_{R\phi}$ (mu)	σ_z (mu)	Thickness(1%/X ₀)
Beam Pipe	14.5	-	-	0.15
VTX	16/18/37/39/58/60	2.8/6/4/4/4/4	2.8/6/4/4/4/4	0.10
Support for each VTX layer	-	-	-	0.10
VTX-shell	65.0	-	-	0.15
SITs	80/mid/X-10	7.2/7.2/7.2	86.6/86.6/86.6	0.65
DC inner shell	X-2.0	-	-	0.104
DC wires (18*18mm) and gas	X -- 1800	100	2828	0.00972+0.00344
DC outer shell	1803.0	-	-	1.346
SET	1811.0	7.2	86.6	0.65

LDT results - momentum resolution



LDT results - impact parameters resolution



LDT - measurement resolution check without multiple-scattering

