SigmaXp, sigmaYp vs normalized mu- count at end of beamline (50mm rad detector) 160000 -150MeV with magnets on 150MeV with magnets off 100MeV with magnets on 100MeV with magnets off 140000 -120000 100000 -80000 -60000 40000 20000 0

Normalized count of mu-

0.0025

0.0000

0.0050

0.0075

0.0100

uniform sigmaXp = sigmaYp

0.0125

0.0150

0.0175

0.0200