

MPGD Simulation Plan

- 1a) (**Easy**) Assess resolution impact on tracking performance using fixed resolutions – Adam
 - Phi: 75 and 100 μm
 - z/R: 75, 100, 150, 200, 300, 400, 500 μm
- 1b) (**Moderate**) Implement resolution dependance on track angle – Me with Fun4All experts
 - Received guidance from Fun4All experts (Joe and Jin) last night on how to implement
 - Involves modifying PHG4TrackFastSim analysis class
- 2) (**Easy**) Systematically study MPGD material impact on tracking performance – Adam
 - 0.5%, 1%, 1.5%, 2.0% X0
- 3) (**Moderate**) Restructure current MPGDs as tiles instead of just one single long cylindrical detector -- Sourav