

Idea for low mass TPC for EIC

Kondo Gnanvo

End Cap

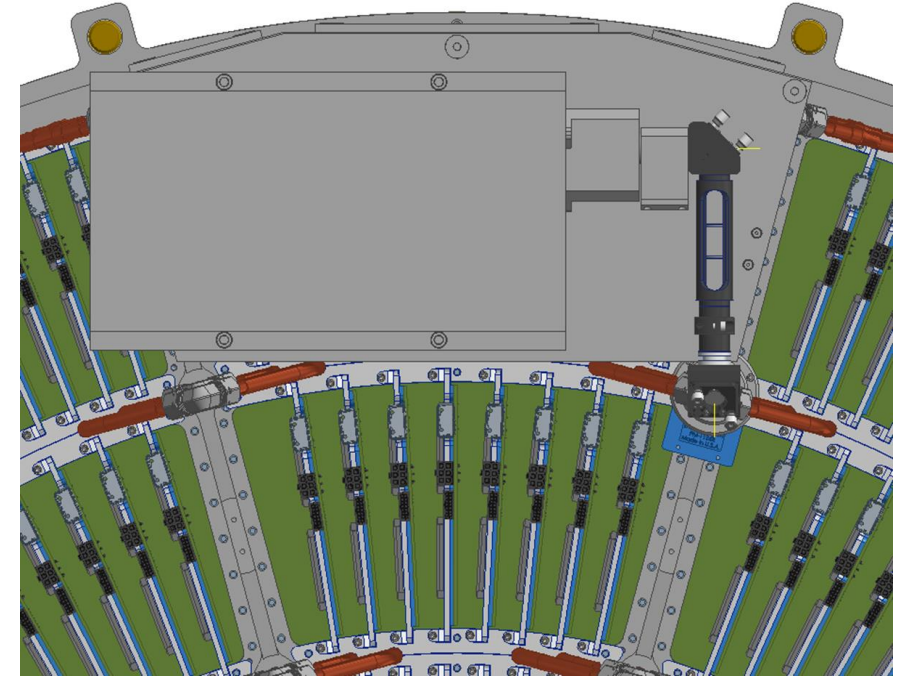
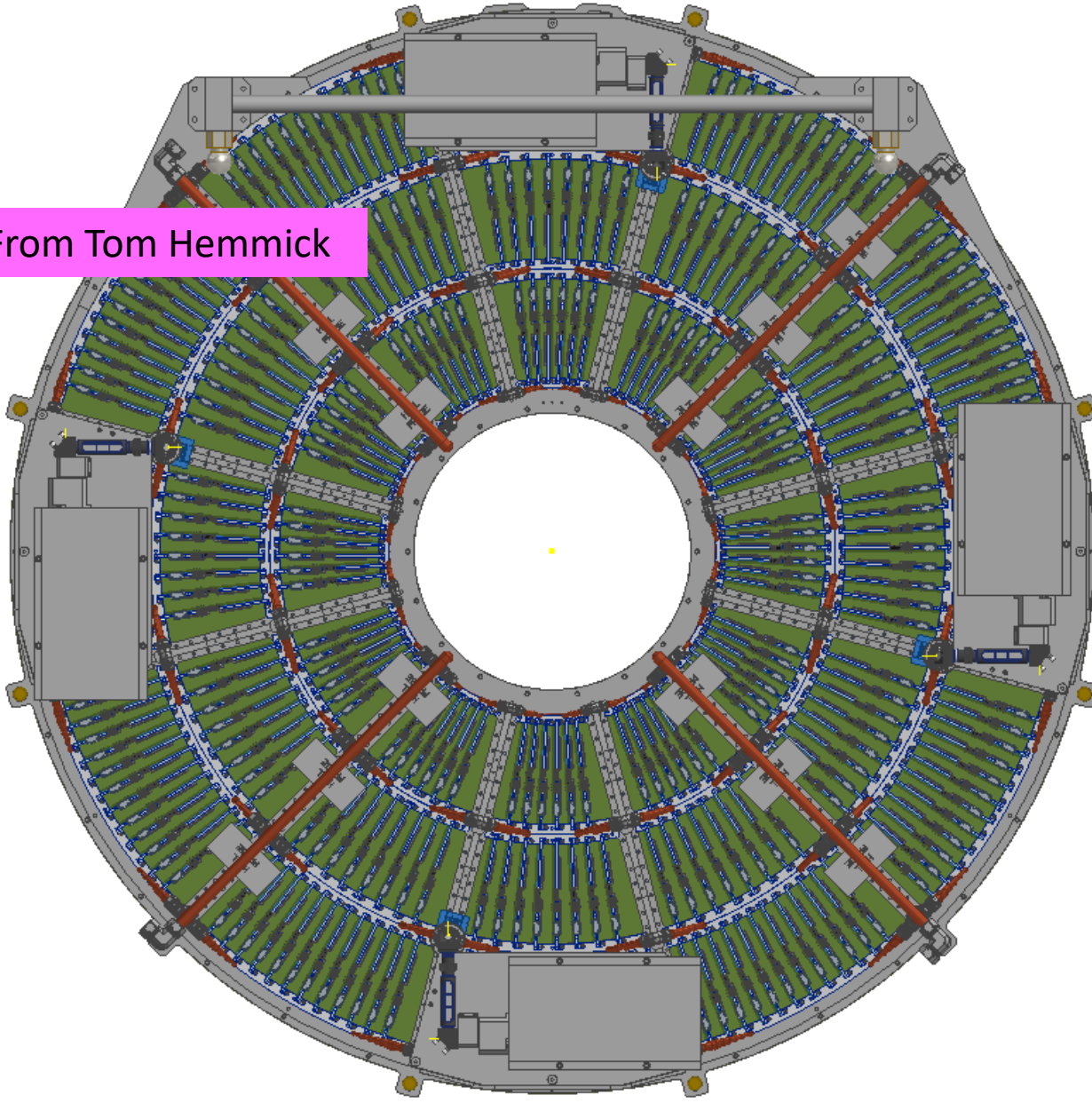


Drift Cathode (membrane)

TPC End Cap

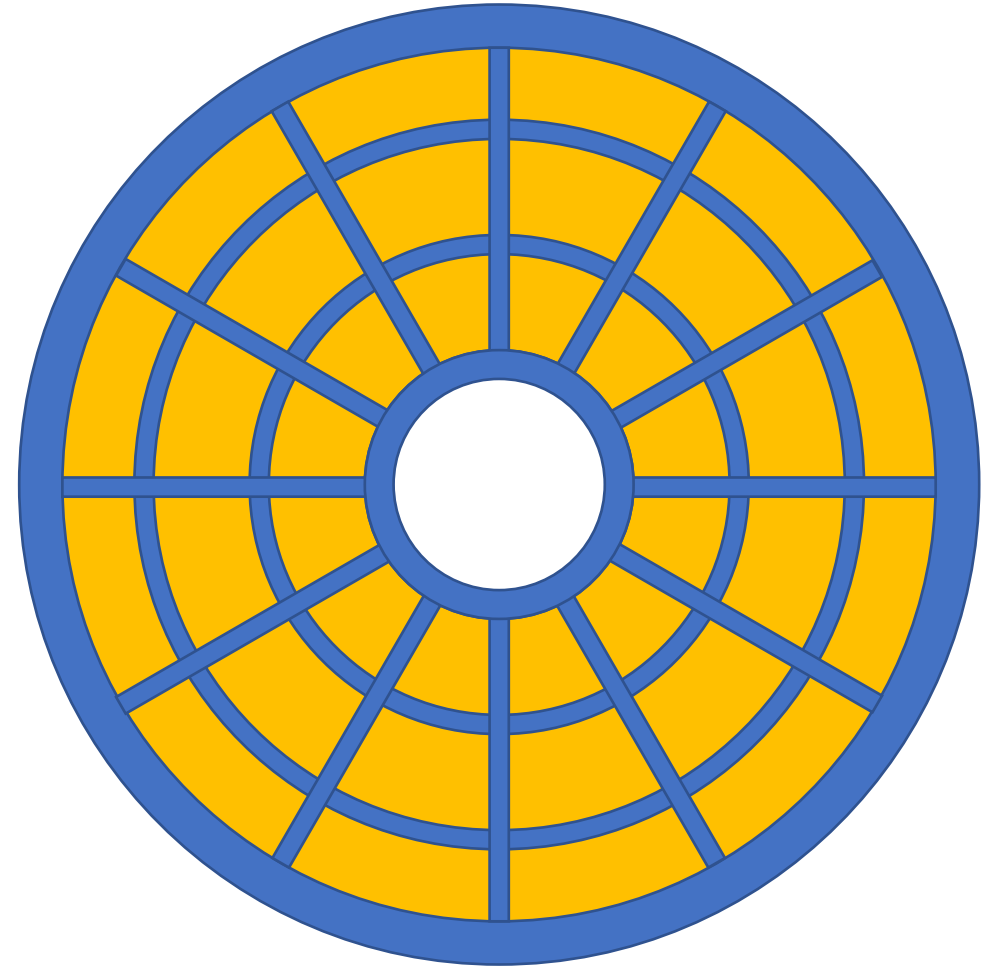
NOTE: Everywhere you see green, you're looking at low mass.

From Tom Hemmick



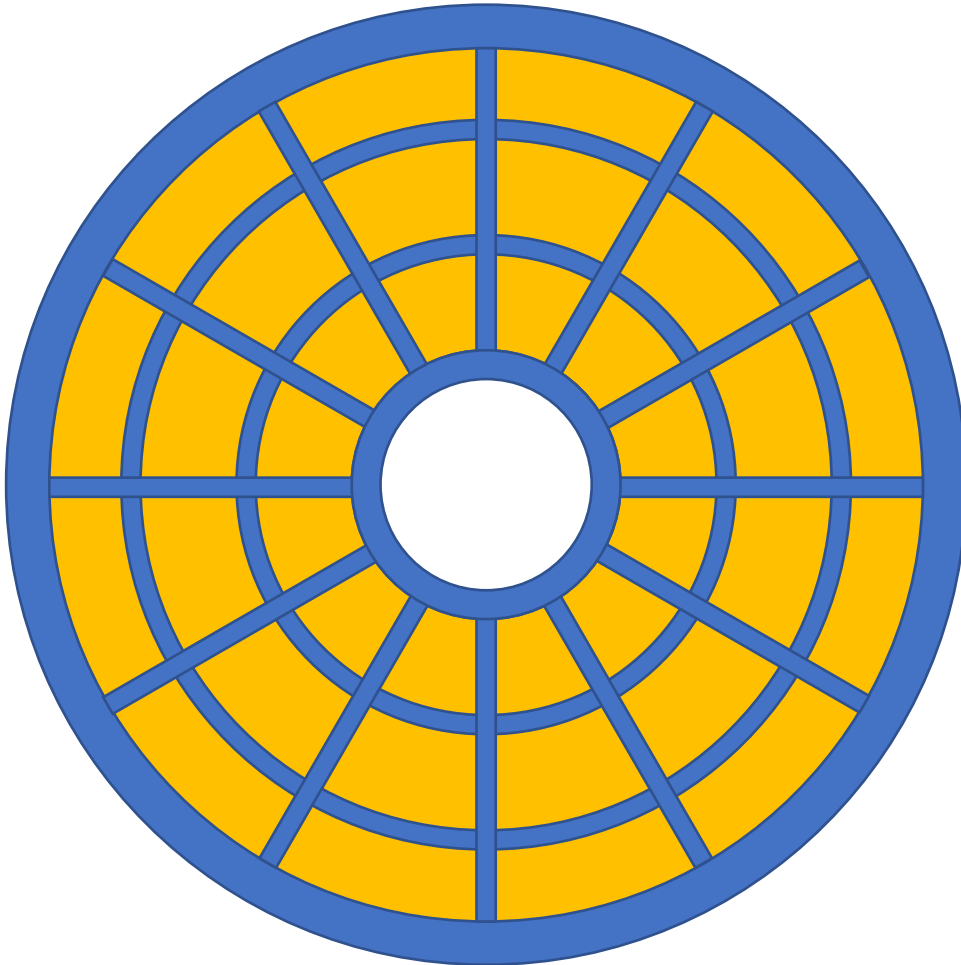
- INTT and MVTX will like this
- All the parts of laser system moved away from beam pipe.
- Elegant

Current sPHENIX TPC Wagon Wheel with 36 GEM readout modules

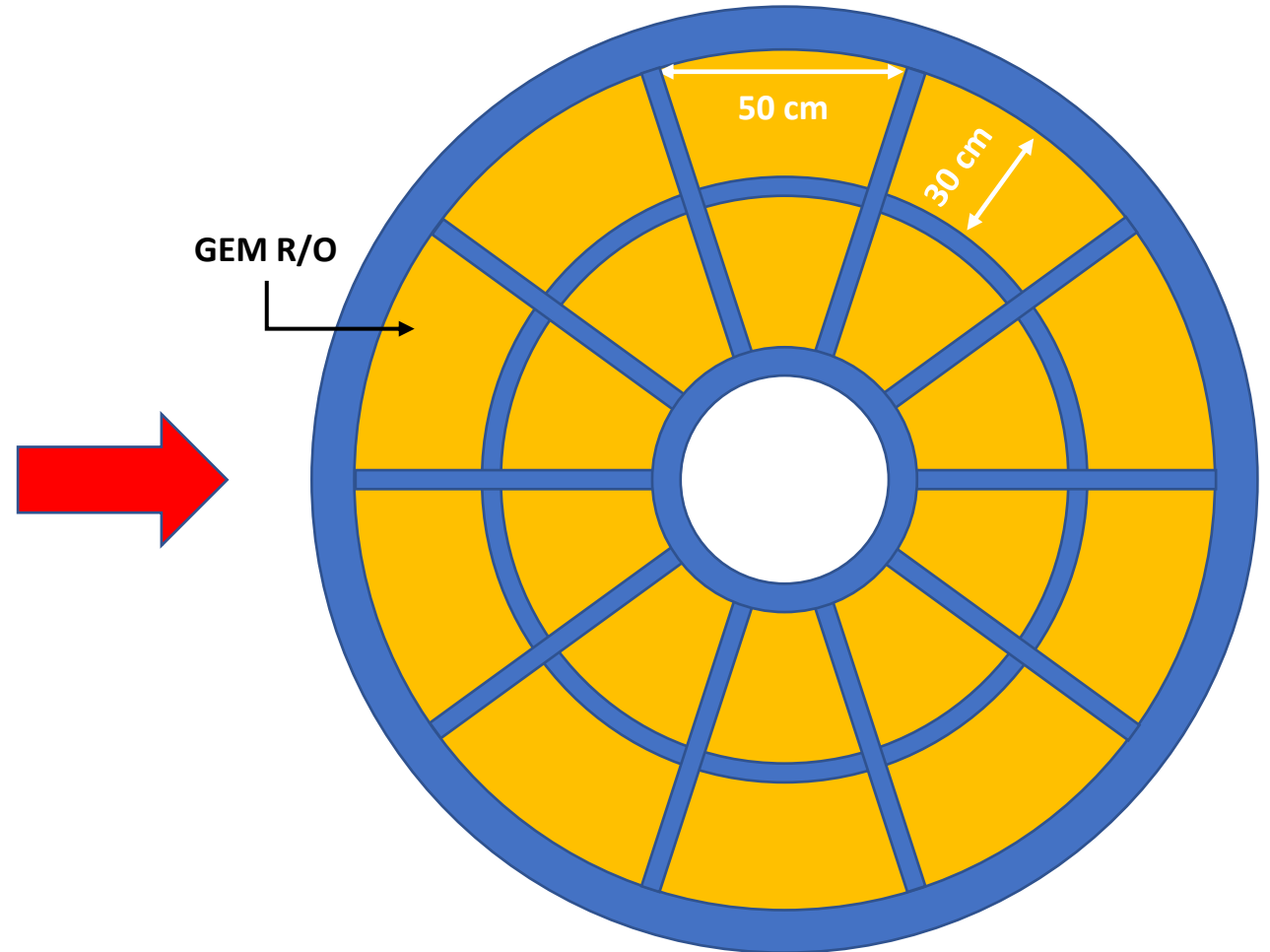


Reducing the material for ePHENIX TPC Wagon Wheel with 20 GEM readout modules

sPHENIX TPC Wagon Wheel
with 36 small GEM readout modules

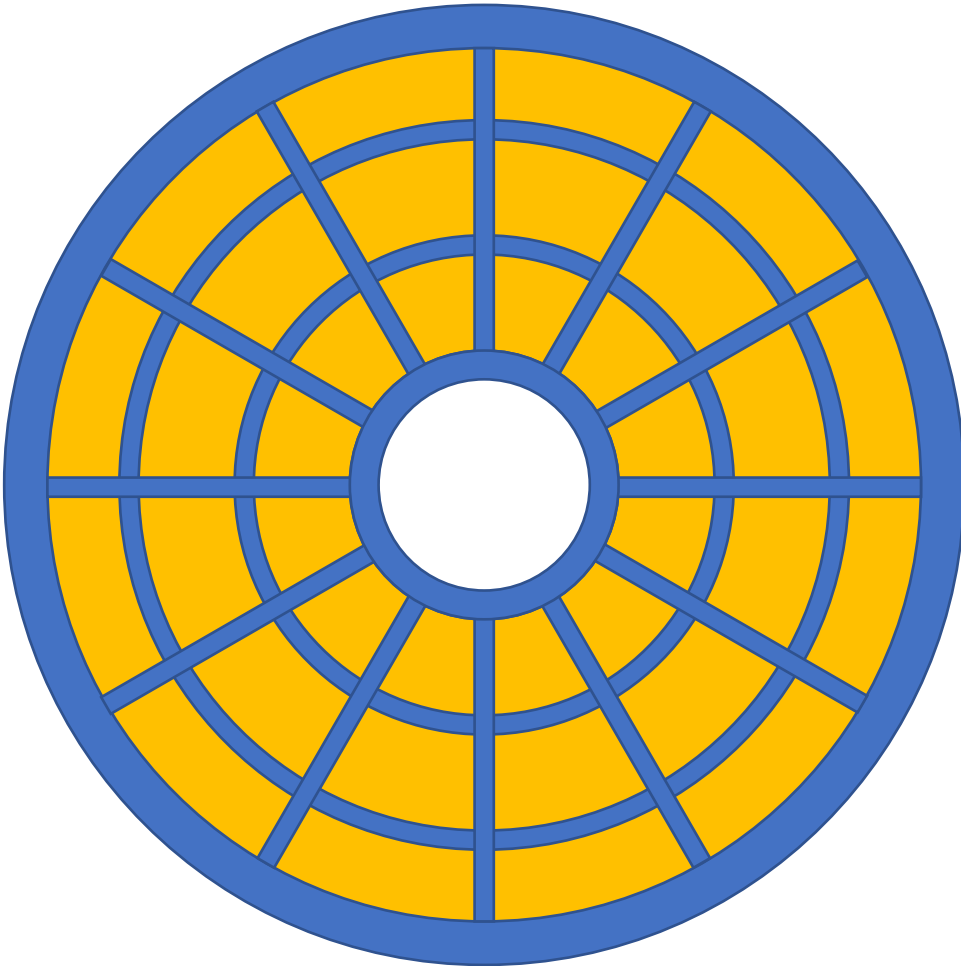


EIC TPC Wagon Wheel
with 20 larger GEM readout modules



Going one step further with 10 GEM readout modules

sPHENIX TPC Wagon Wheel
with 36 small GEM readout modules



EIC TPC Wagon Wheel
with 10 larger GEM readout modules

