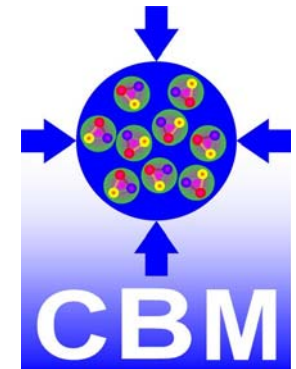


CBM Masterclasses

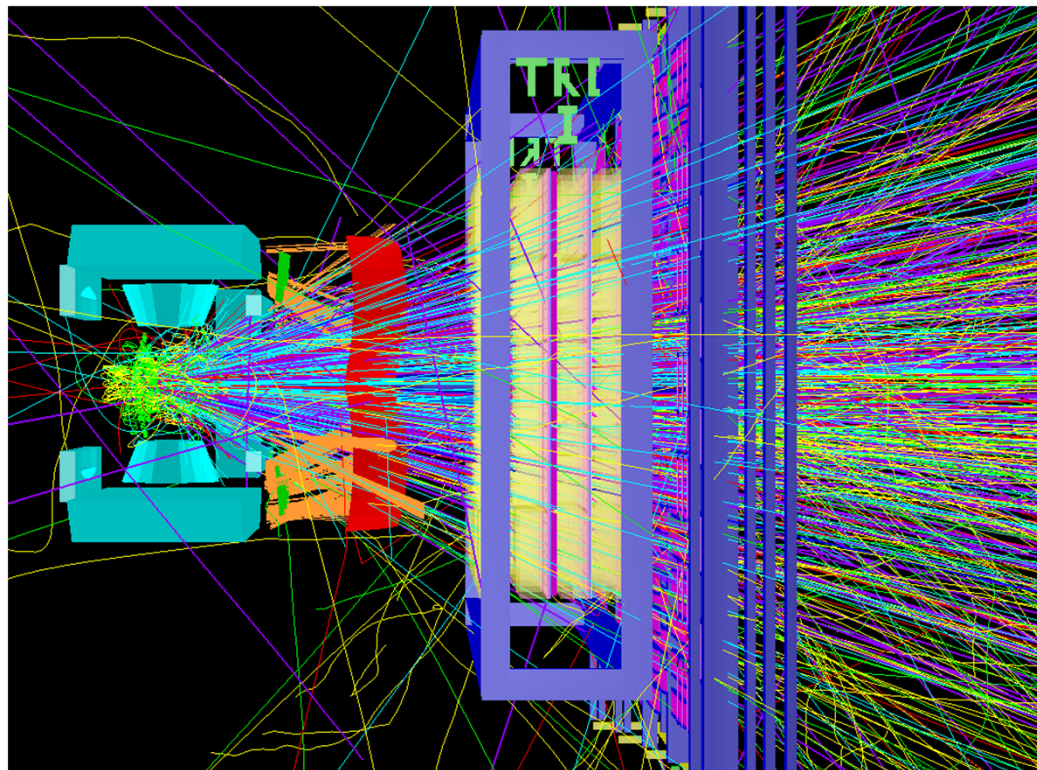


- CBM = Compressed Baryonic Matter @FAIR
- Newcomer to the masterclass community
- Strong will to get into this community and set up masterclasses
 - Similar plans from the other FAIR experiments, PANDA e.g. already quite advanced (Netzwerk Teilchenwelt)
- Close collaboration with the ALICE group, ALICE team very welcoming and helpful
- ALICE framework rather easily extendable to incorporate CBM events
- Plan towards web-based application
- Currently one PostDoc working (JLU Giessen)
 - Geometry extracted and simplified
 - Next steps: get a track representation independent from CbmRoot (CBM analyses framework); establish an event display for visual inspection; establish simple analysis routines
- Aim for small „hyperon analysis package“ based on CBM simulations: visual inspection of events, simple analysis macro for extraction of hyperons



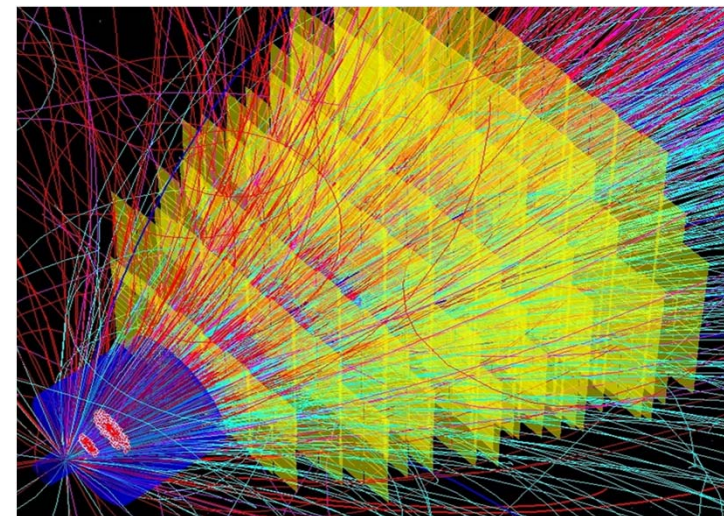
Event displays of CBM simulations

Full detector



MVD+STS RICH TRD TOF

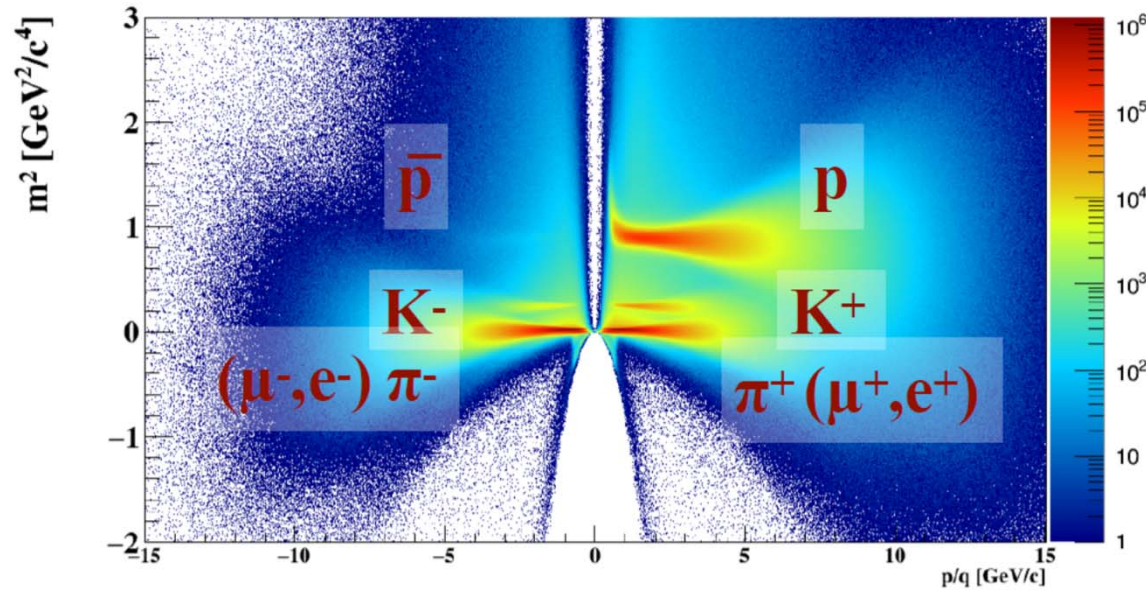
tracking part inside dipole magnet



MVD+STS



Central Au+Au collisions at 12 AGeV beam energy:



Hyperons well measurable with hadron-ID + cuts on decay topology

