

A 3D cutaway diagram of the sPHENIX detector, showing its complex internal structure with various colored components like the barrel calorimeter (red), endcap calorimeter (blue), and central tracking system (green and yellow).

Importing ITS into sPHENIX

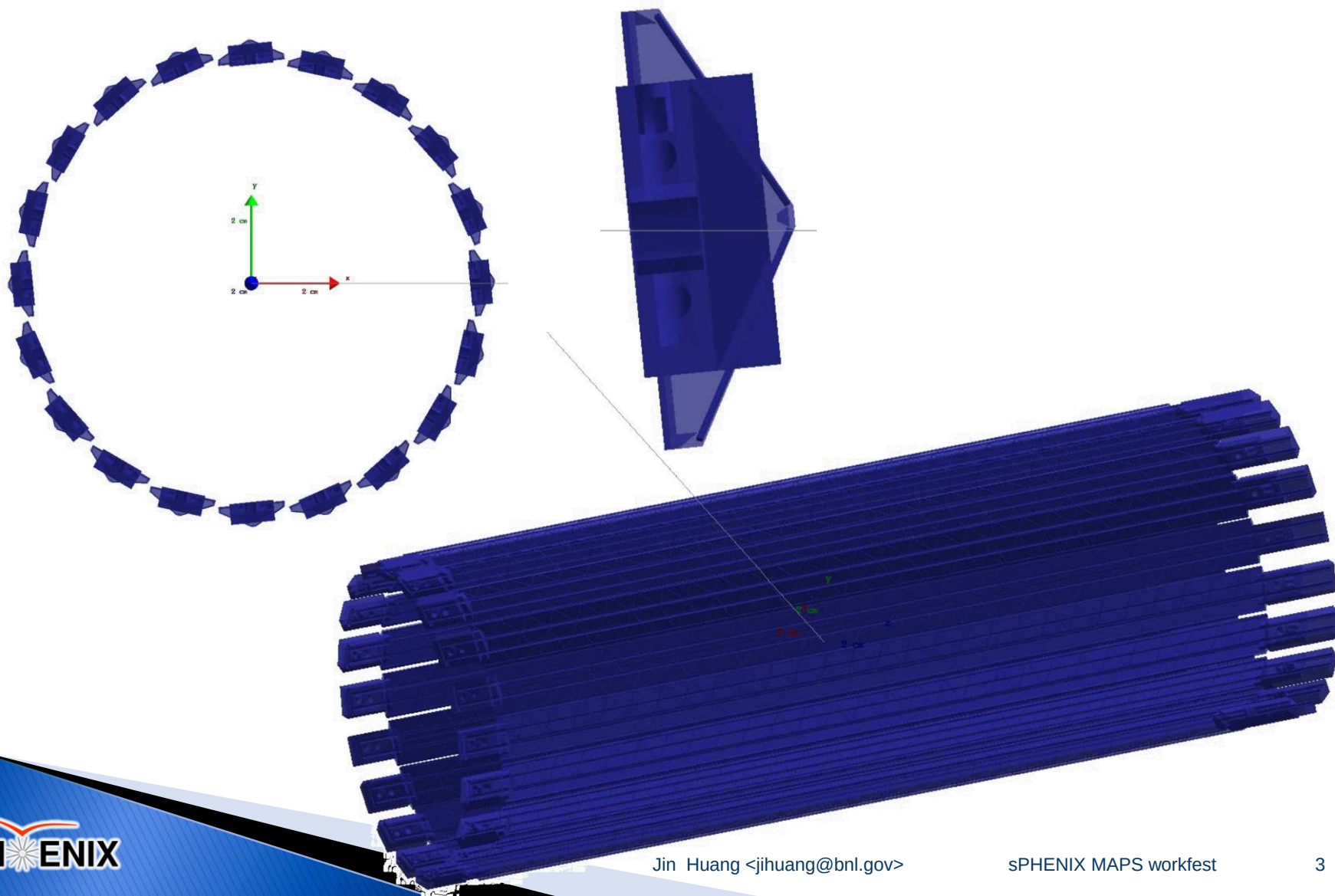
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Overview

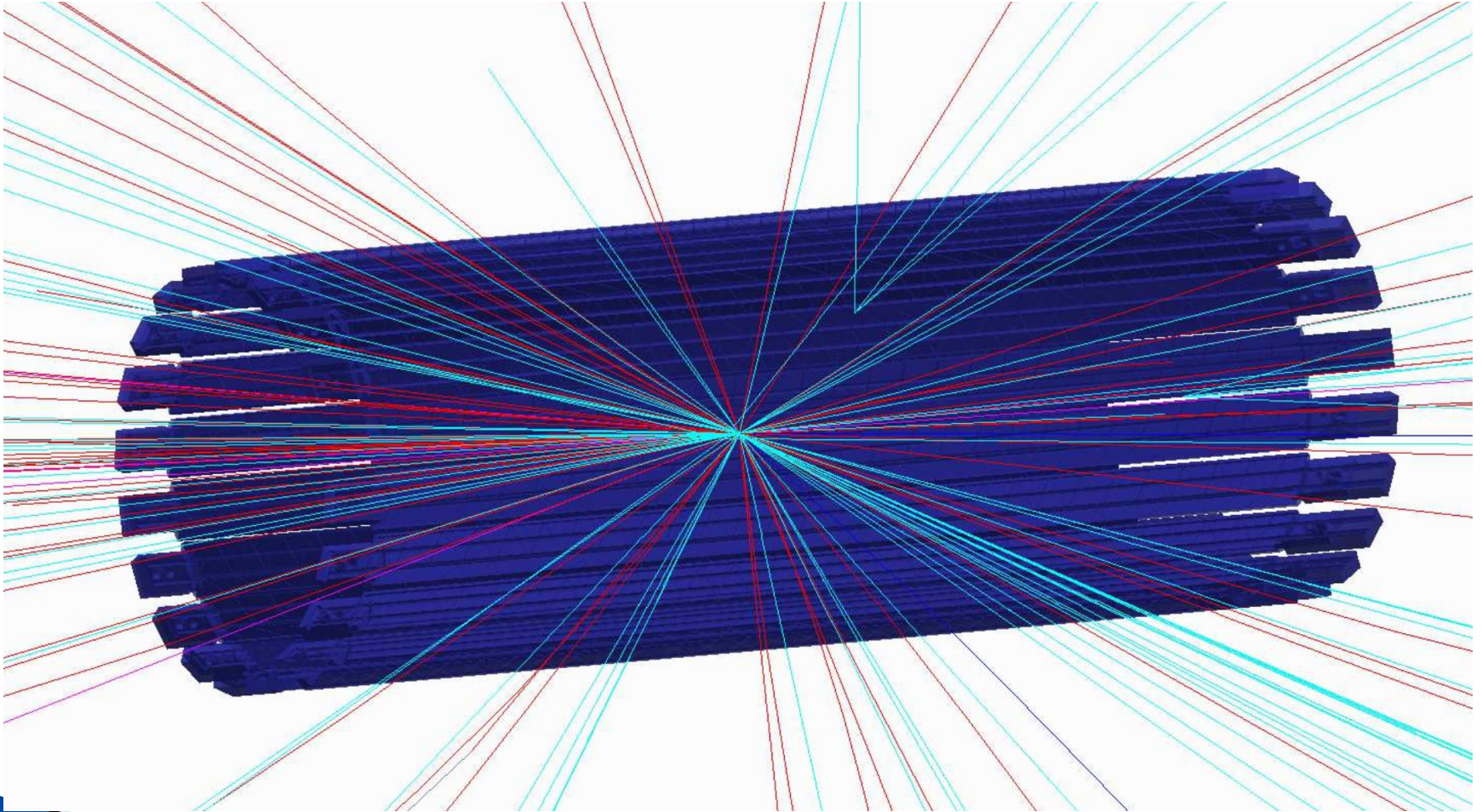
- ▶ Mike fetched ALICE ITS TGeo geometry
- ▶ We discussed best option for importing to PHENIX via TGeo -> GDML -> Geant GDML parser
- ▶ ...caveats...blah....
- ▶ And we can import the ITS ladders (sensor/cooling/support) and build our sPHENIX ITS



Test assembly 20 staves in sPHENIX sim



Jetty event in pythia8 (510pp)



Next

1. Make it real code
2. Digitization
3. Geant geometry -> reconstruction exportation
4. Interface to pattern reco (sPHENIX Hough)
5. Fit via GenFit2 (Haiwang)
6. RAVE (Sanghoon)
7. Awesome B-jets plot