

Conclusion

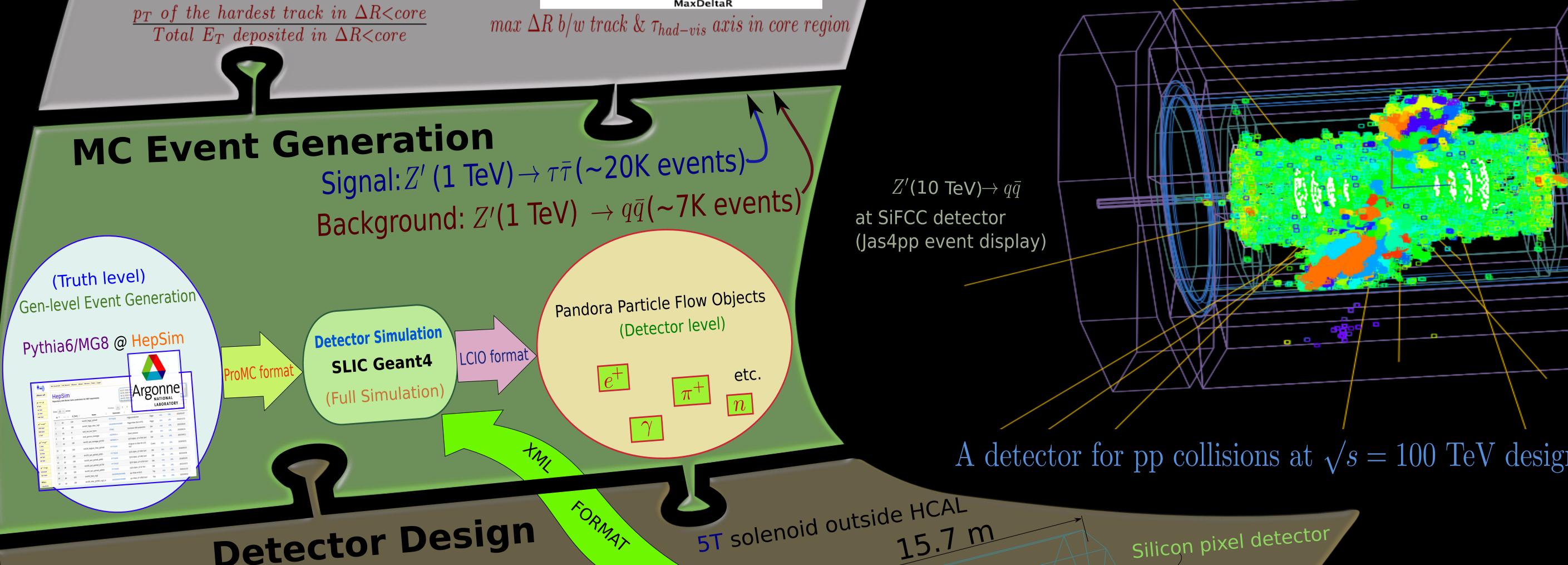
- Good agreement between level variables used for identifying 7-leptons
- to be trained using the au-lepton discrimination variables
- Need to optimize hadronic 7-lepton identification performance by varying calorimeter granularity
- Full GEANT simulation is CPU-intensive due to 150 million channels in calorimeter, simulation performed on Open Science Grid

Detectors for Superboosted 7-leptons at Future Circular Colliders

Sourav Sen (Duke University) (sourav.sen@duke.edu)

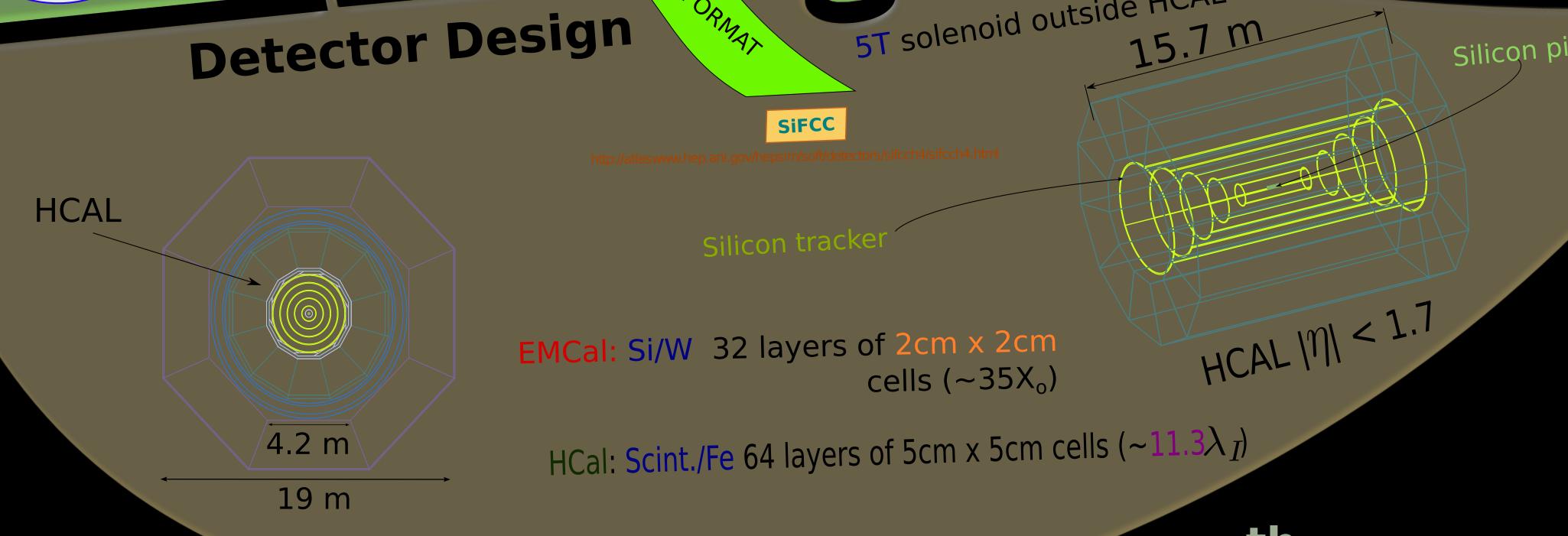
Co-authors: S. Chekanov (ANL), A. Kotwal (Duke U. & Fermilab)

With contributions from L. Gray (Fermilab), C. Helsens (CERN), A.M. Henriques Correia (CERN), J. McCormick (SLAC), J. Proudfoot (ANL), J. Respond (ANL), C. Solans (CERN), J. Strube (PNNL), N. Tran (Fermilab), S. Yu (NCU)



MaxDeltaR

A detector for pp collisions at $\sqrt{s} = 100$ TeV designed for performance studies





References

arXiv:1605.06123 (2016).