Lawrence Bronk MIT

A NEWBIE'S JOURNEY INTO SLIC AND THE ORG.LCSIM FRAMEWORK

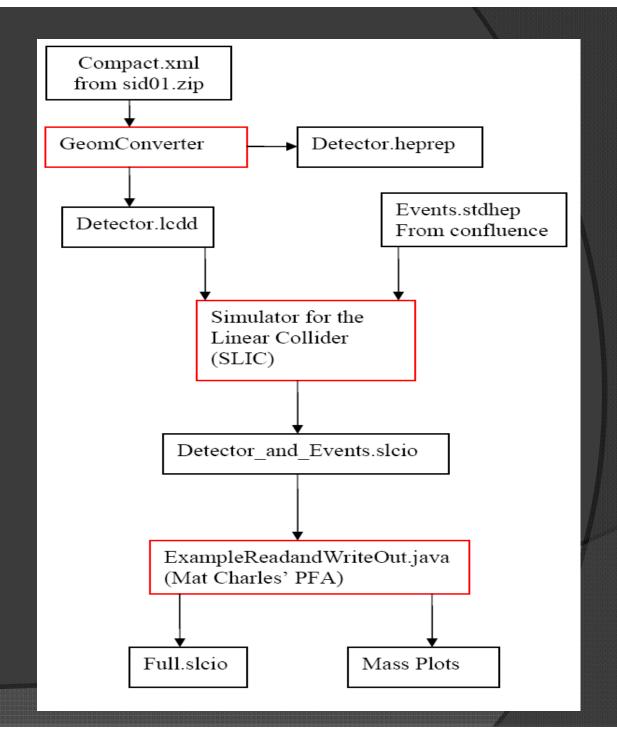
Outline

- 1. Purpose
- 2. Methods
- 3. Results
- 4. Conclusion

Purpose

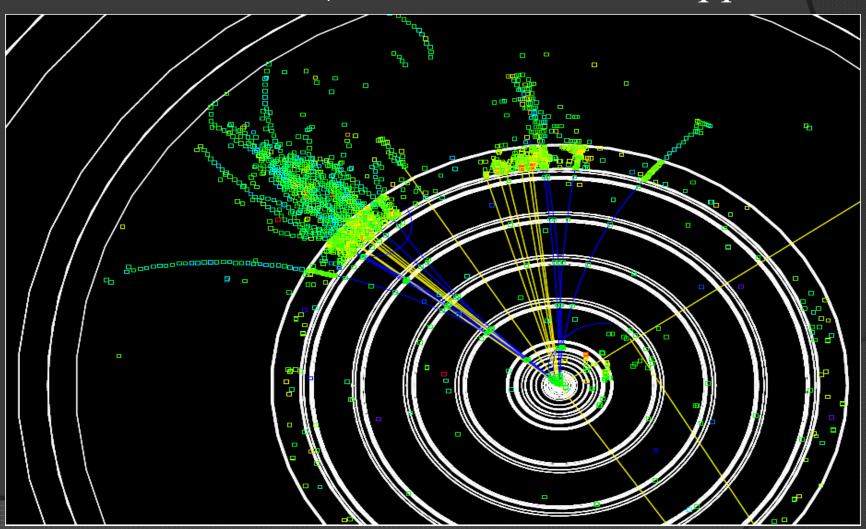
- International Linear Collider & Search for New Physics
- Senior Thesis (would like to graduate)

The Flow

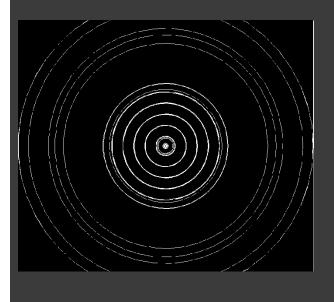


The Hadronic Calorimeter

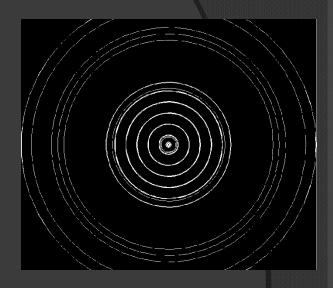
- Most difficult reconstruction
- Event of choice, the beloved $ZZ \rightarrow qq, vv$

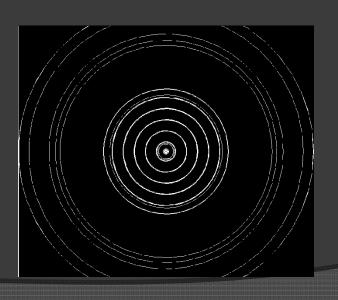


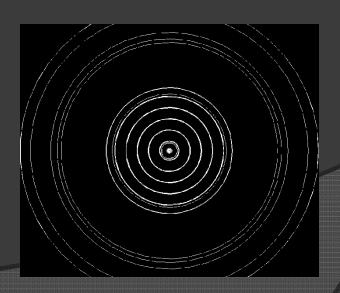
Changing the HCAL



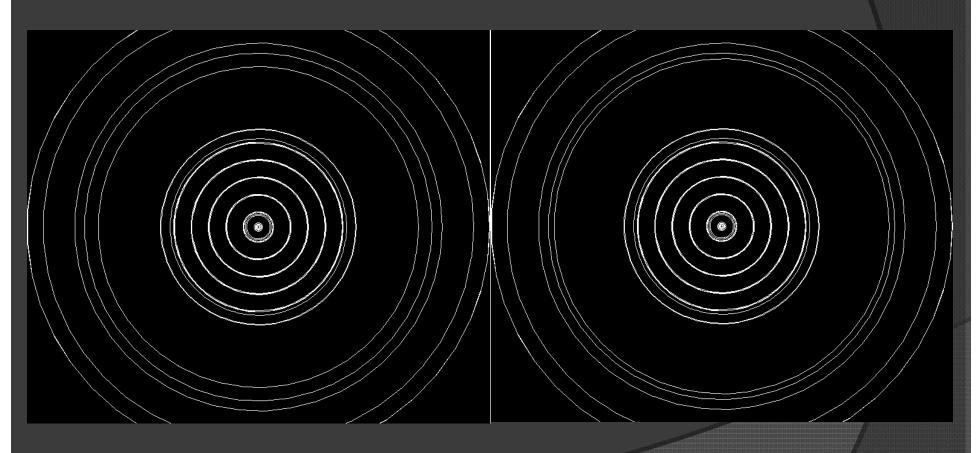








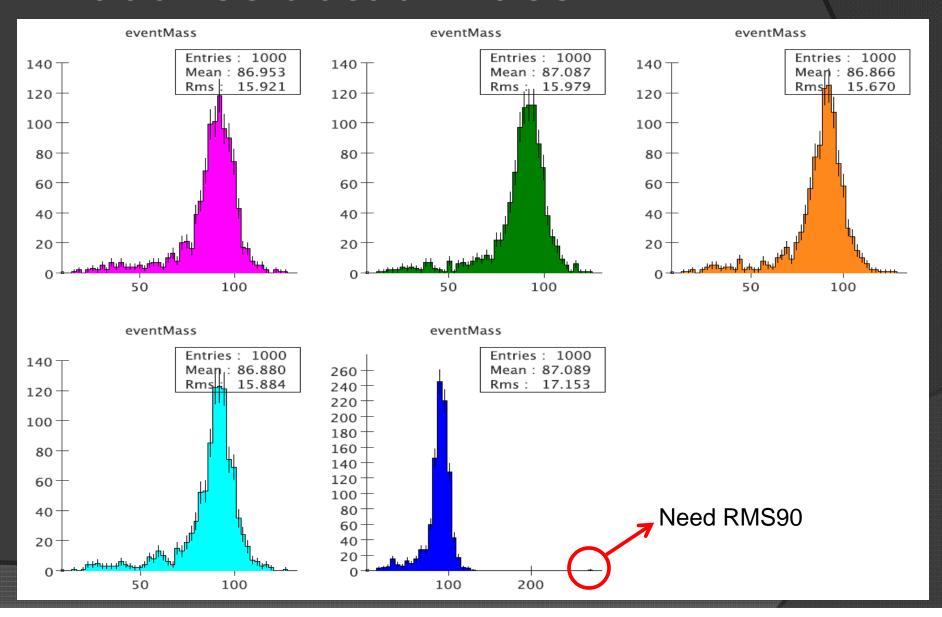
A Better Look



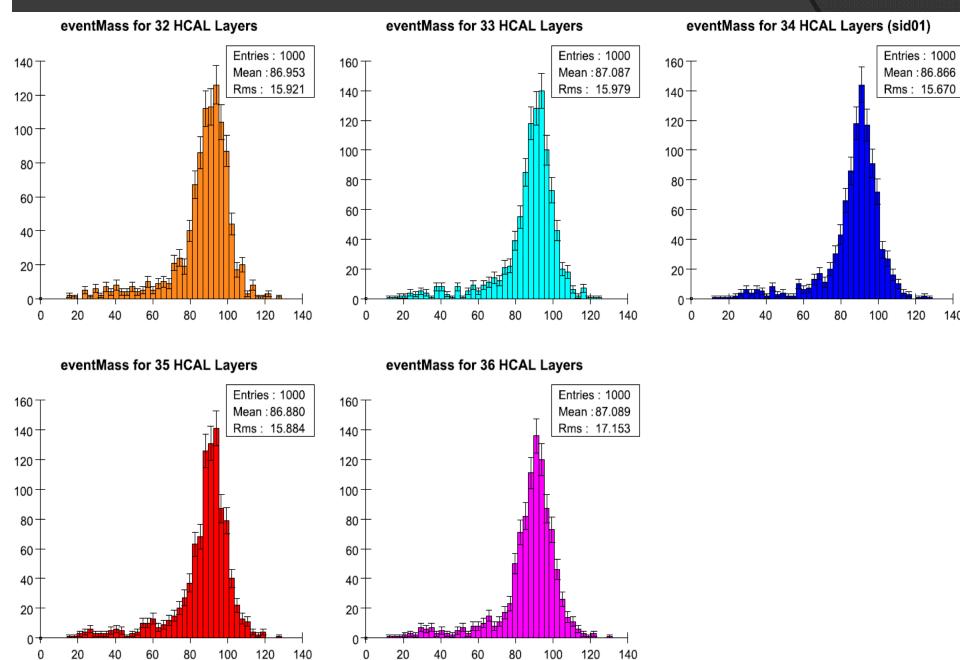
32 HCAL layers

36 HCAL layers

Reconstructed Mass



Better Plots



An Oversight: Wired vs Reality

Conclusion

- Really just starting the physics, a lot of work to be done
- Open to suggestions for interesting detector studies

Thanks for all the help SLAC!





Ron



This Just In

