

Phoenix

Experiment Independent Event Display

 <https://github.com/hsf/phoenix>

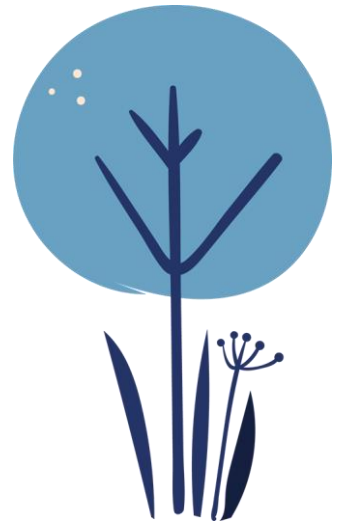
 <https://hepsoftwarefoundation.org/phoenix/>





Hi there!

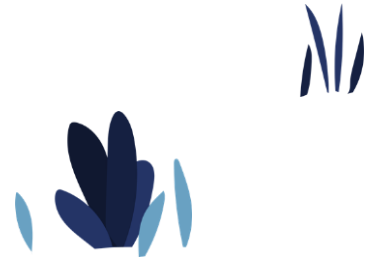
- I am **Fawad Ali**
- A recent Software Engineering graduate
- One of the developers of Phoenix
-  github.com/9inpachi



01

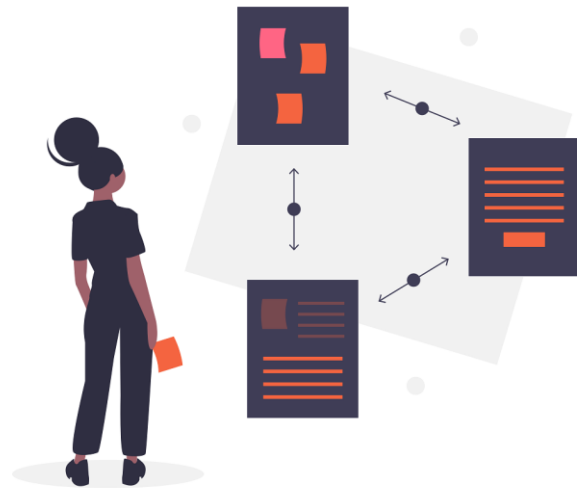
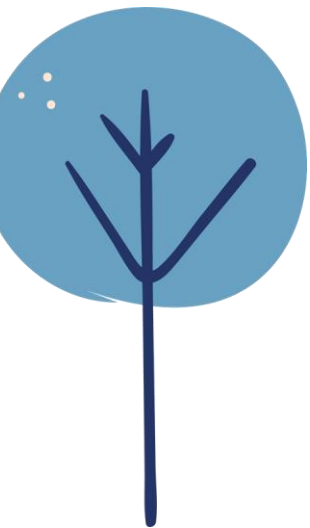
Phoenix

The idea of this project is to have a simple way to visualize event and geometry data using nothing more than a web browser.



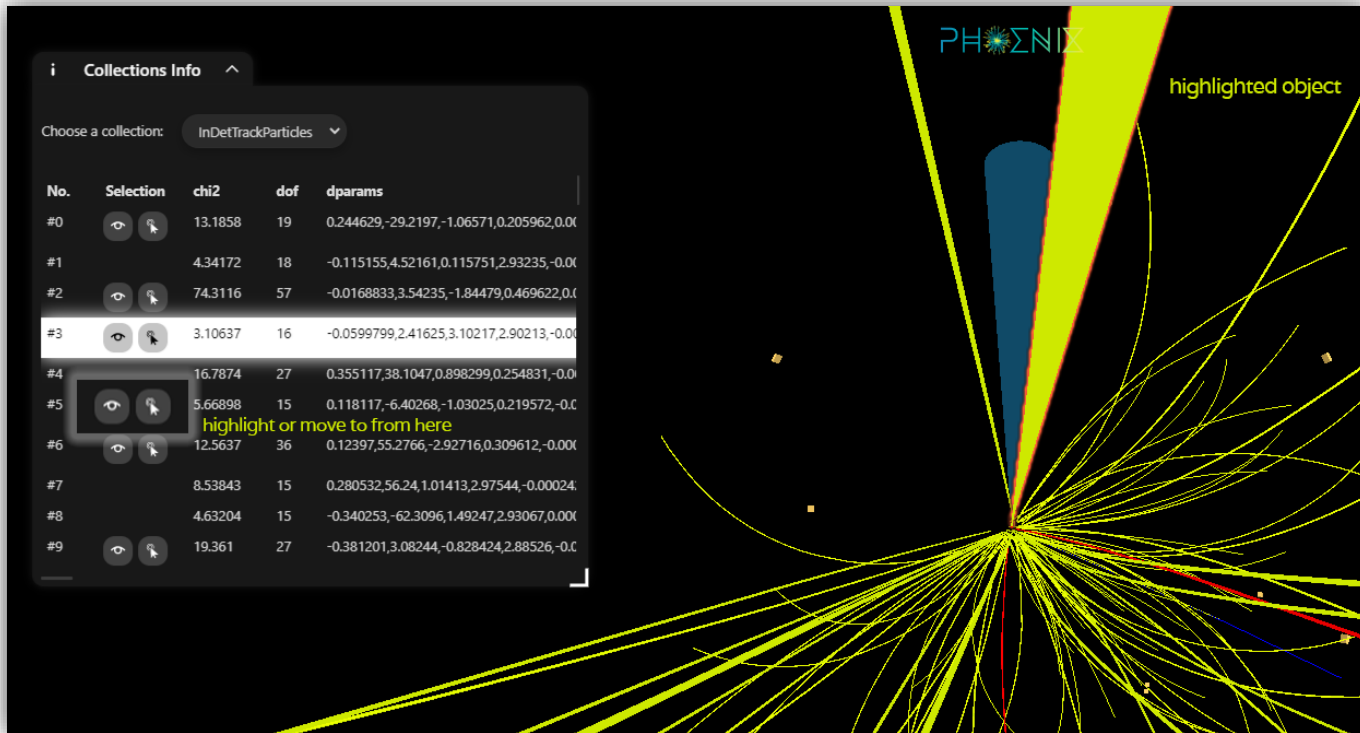
02

Features and Improvements (Highlights)



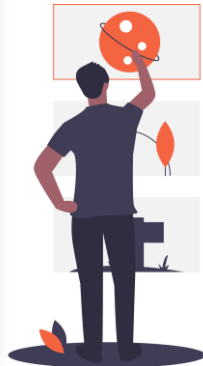
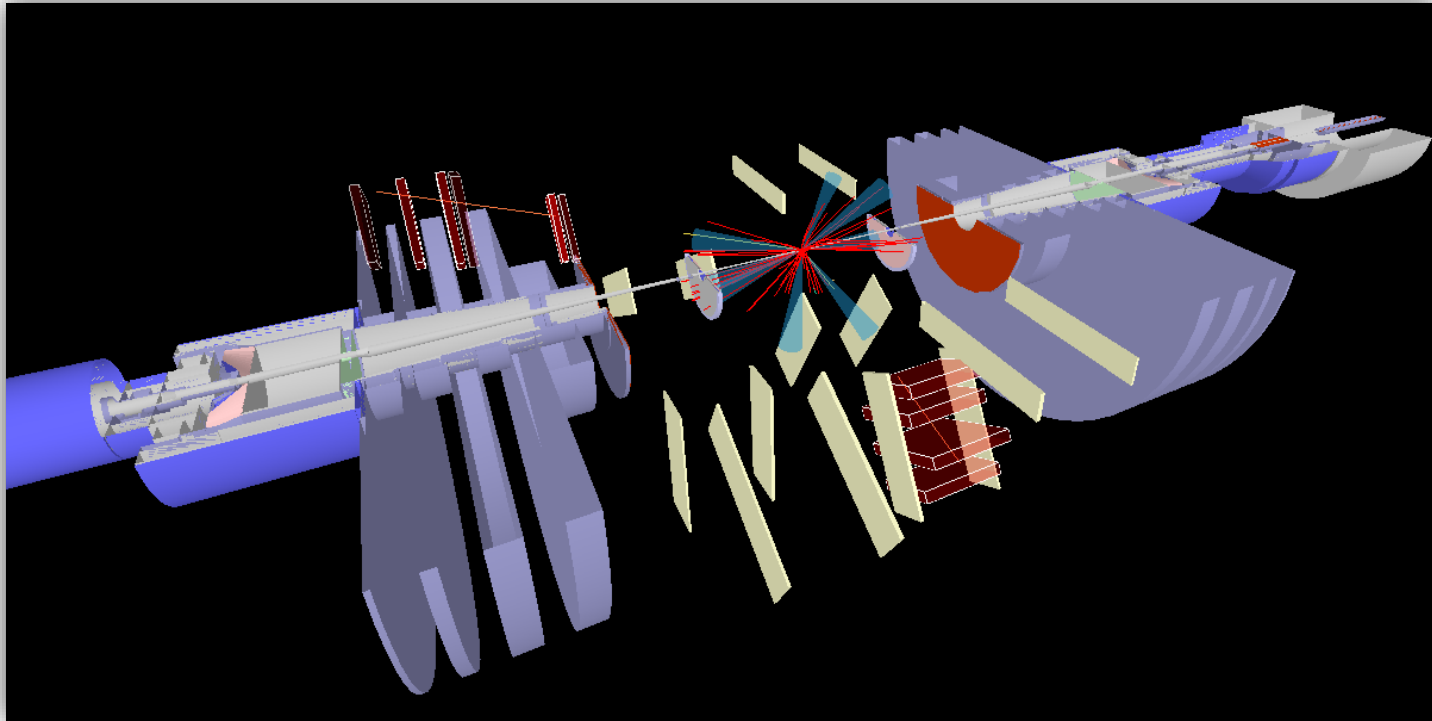
Features / Improvements (1/5)

Highlight event data from collections info and selection.



Features / Improvements (2/5)

CMS experiment with ROOT geometry.



Features / Improvements (3/5)

Phoenix menu for detector and event data controls.

The Phoenix Menu is a dark-themed control panel with the following sections:

- Phoenix Menu** (header)
- Detector**: (toggle), gear icon, and downward arrow.
- Event Data**: (toggle), gear icon, and upward arrow.
- Tracks**: (toggle) and upward arrow.
- CombinedMuonTrackI**: (toggle), gear icon, and downward arrow.
- InDetTrackParticles**: (toggle), gear icon, and downward arrow.
- Jets**: (toggle), gear icon, and downward arrow.
- Hits**: (toggle) and downward arrow.
- CaloClusters**: (toggle) and downward arrow.
- Muons**: (toggle) and downward arrow.

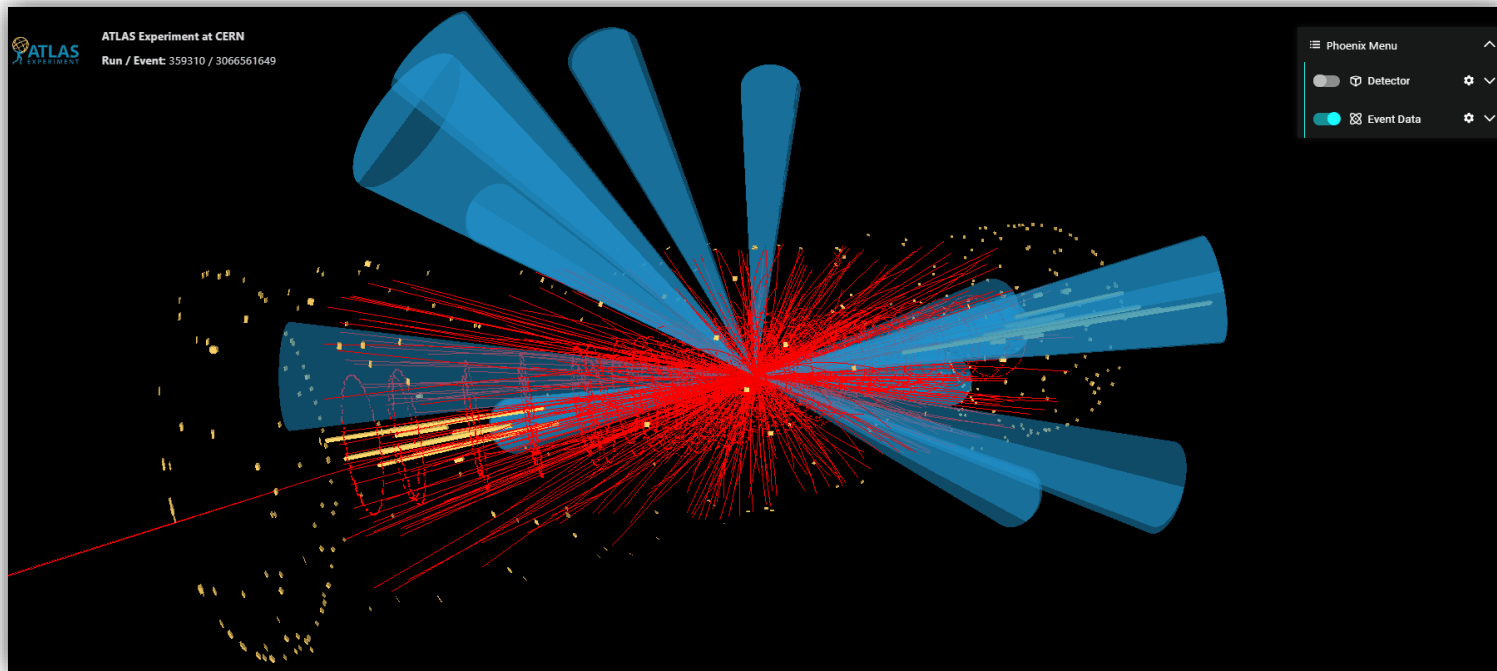
On the left side of the menu, there are additional controls:

- Color**: A color selection box.
- Cuts**: A section containing a **Reset cuts** button and four sliders for **Min chi2**, **Max chi2**, **Min dof**, and **Max dof**.



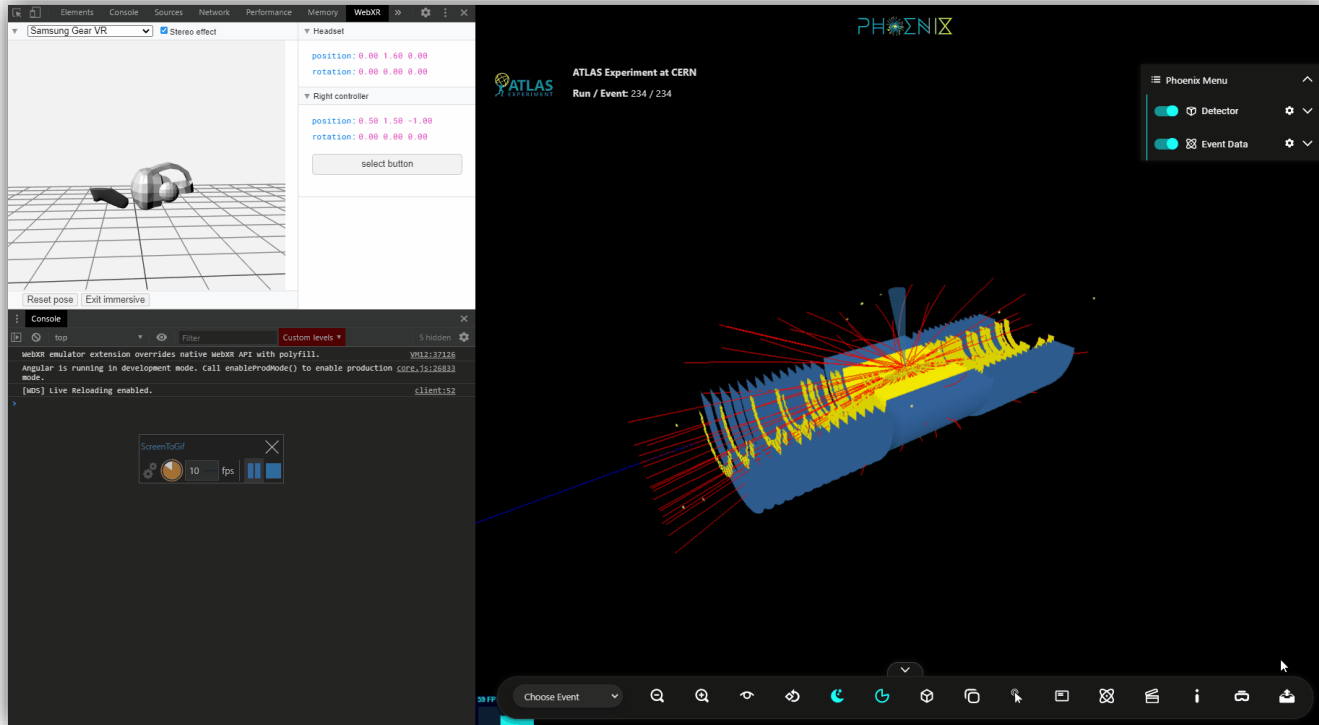
Features / Improvements (4/5)

Event animation showing propagation of event data.



Features / Improvements (5/5)

Immersive virtual reality (VR) on the web.



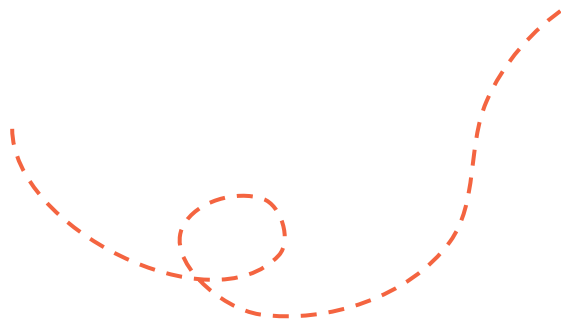
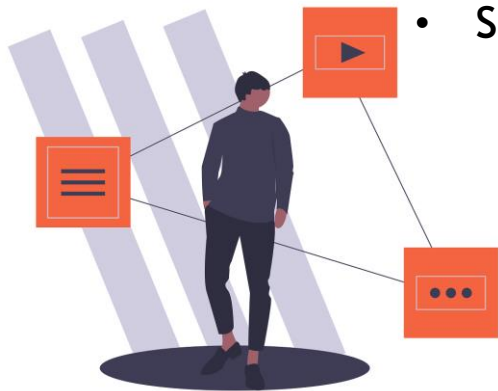


03



What's Next?

- Support for loading events from server
- Support for loading TGeo and Geant4 geometries
- More immersive and dedicated VR experience
- Support for more experiments!





04

Thanks!

That's all!

Have questions?
Ask away

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