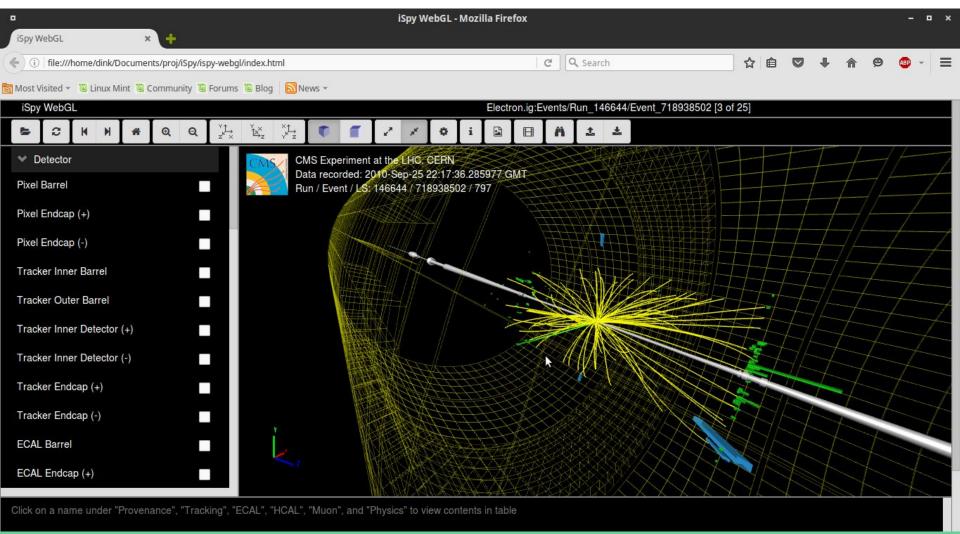
## Event Display - Atlas to iSpy

**Taylor Dinkins** 



## Atlas Data

- Data retrieved from ROOT files for Atlantis/Athena 2D displays is currently in XML format
- XML Example:

```
<note>
<to>Tove</to>
<from>Jani</from>
<heading>Reminder</heading>
<body>Don't forget me this weekend!</body>
</note>
```

## iSpy

- Open source, 3D event display for CMS detector events
- Challenge is to convert the Atlas data from XML into a specific JSON format that iSpy recognizes - several hundred thousand lines of data per event file
- iSpy JSON format:

ig-event-file ::= { 'Types': type-descriptions, 'Collections': collections, 'Associations': association-sets }

(Where Types are a 'schema' to define the data format, Collections are the data in the specific formats, and associations define indexes of correlated data for drawing)

## Questions?