

Scatter plot showing the distribution of hits (x, y) for Geant4 and Opticks. The x-axis ranges from 0 to 1600, and the y-axis ranges from 0 to 1000. The plot displays three distinct clusters of hits, each labeled with the number of hits for Opticks and Geant4.

- Top Left Cluster:** Opticks: 187, Geant4: 515. This cluster shows a dense group of hits, with Opticks hits (red dots) and Geant4 hits (blue dots) closely overlapping.
- Bottom Left Cluster:** Opticks: 0, Geant4: 424. This cluster shows a dense group of hits, with Opticks hits (red dots) and Geant4 hits (blue dots) closely overlapping.
- Right Cluster:** Opticks: 123, Geant4: 492. This cluster shows a dense group of hits, with Opticks hits (red dots) and Geant4 hits (blue dots) closely overlapping.

Legend:

- Red dots: Opticks: 617 intersections
- Blue dots: Geant4: 1856 hits
- Black dots: Opticks: 166 hits

