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Effects of Single Ion Strikes into Si on the 3D Reciprocal Space

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■ I have data!

- MD Data in VTK “visualization toolkit” format that is containing the individual points of intensity in a 3D crystal lattice of Si
- Have MD data for a control undamaged Si lattice and for 10KeV PKA
- Currently trying to figure out how to best read and work with the data type
 - Anyone in the group have prior experience or expertise in this area and have a suggestions?

Challenges

- Finding a visualizer to see/work the data
- Consolidating that the MD outputs a VTK file but the Experimental outputs an HKL file
 - Ultimately aim of the project is to compare intensities seen in the crystal lattice
 - Can a common data file be reached between the two for direct comparison?
- Things to consider
 - Find a visualizer that can compare and contrast points of intensity?
 - Find a way excel can read the data and generate something akin to a 3D scatter plot to quantify data?

Recap

- Have data
- Have to figure out how to read the data
 - In a VTK and HKL friendly format if possible
- Initial research into VTK has brought up something called Paraview but work needs to be done to see if this will fit needs
- Any prior group experience using either?

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