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

Manuel Franco, Remi Dingreville, Khalid Hattar, Wei Ji



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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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