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- Looked at the use of EELS to determine the plasmon dispersion in graphene, the photonic dispersion and dielectric function of various materials.
- Looked at the structure of the data generated by the TEM and the post processing needed to "clean" the data.

Next week

- Try to import the data generated by the TEM into Python as some sort of usable object.

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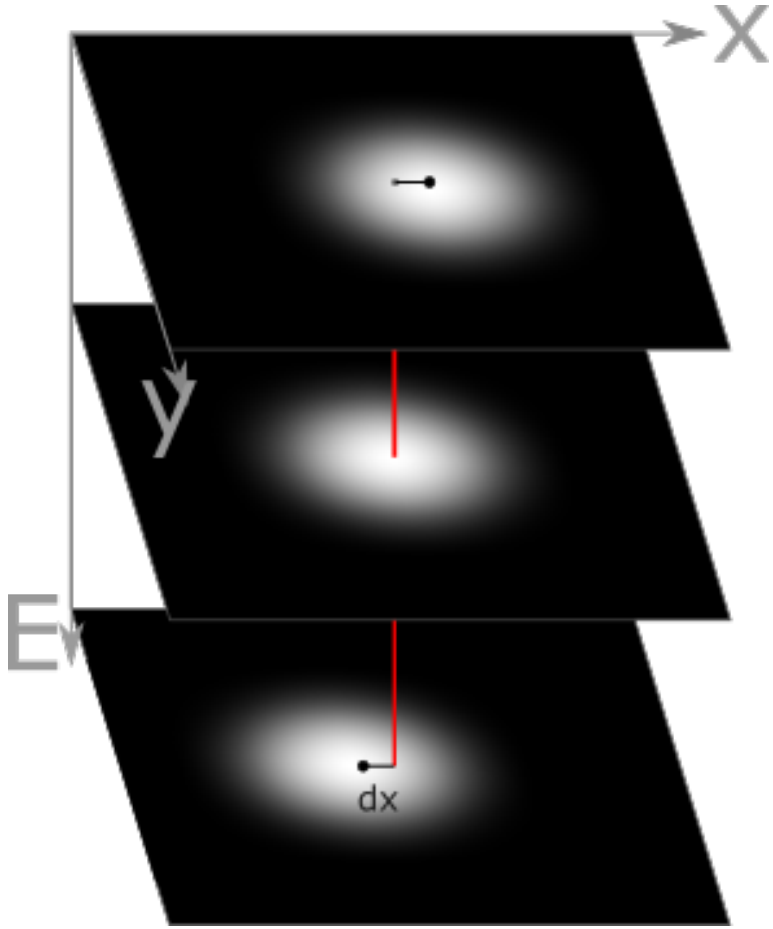
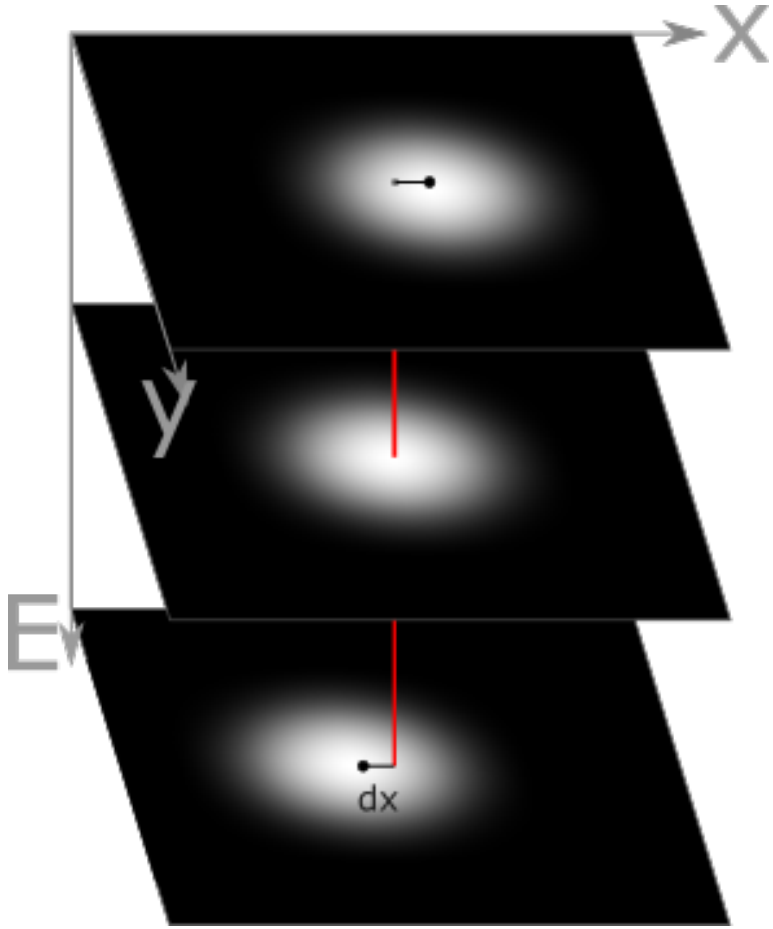
- "Clean" the data by correcting for drift of the sample and errors in the data as in this paper. [1]

Data Processing



- Process the file and convert it to a python object.

Data Processing



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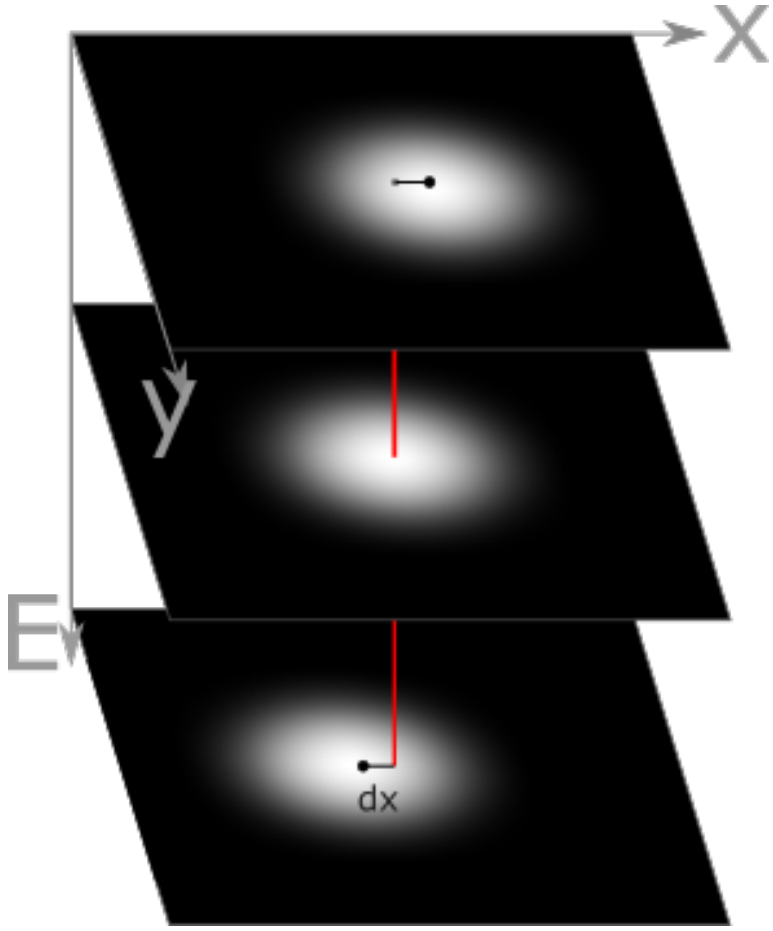

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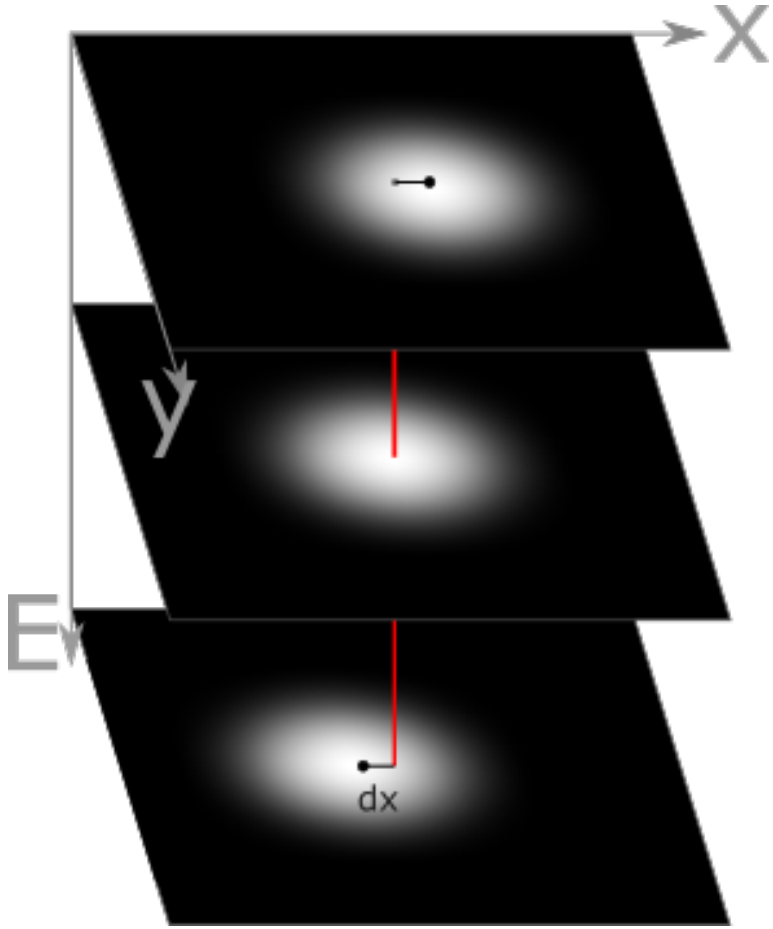
- Realign the slices that were shifted in between measurements.

Data Processing



- Process the file and convert it to a python object.
- Remove any small bright pixels from unknown sources.
- Realign the slices that were shifted in between measurements.
- Try to get some useful data.

References

S. Schneider, "Angular resolved low loss eels for materials characterization," 2013.