

## Reviewer completed the proposal S-XV-ST-6991

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Review of proposal S-XV-ST-6991 has been completed by Enrique Quiroga-Gonzalez

Rating: GOOD

Text: The project deals with TXM and XANES of an heterostructure of NFO and CN for sodium ion batteries. The proposal is well written, and the author knows relatively ok the equipment to be used at SLAC. In principle, the desire to track changes of the structures during their use in a sodium ion battery is legitime, to help in the understanding of the system... as any research project on new materials used in a new application.

However, there are many open questions that should be answered before thinking about TXM and XANES:

-What is the relevance of these kind of materials?

-What is expected from the heterostructures in a sodium ion battery?

-Which would be the ion-storing material, NFO or CN? how good are these materials in Na ion batteries?

-Does the interphase matter?

-Is there something in particular that it is not known in this material's system, that requires TXM and XANES?

-The author indicated that wants to map the local state of charge? what is the reason for that?

Safety: no comments