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Modulated phases of ferroic oxides

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Propositions

accompanying the dissertation

Modulated phases of ferroic oxides

CaFe_2O_4 and BaTiO_3 thin films

by

Silvia Damerio

1. The acknowledgements should be the longest section in many scientific works.
2. Predicting the epitaxial relationship between thin films and non-isostructural substrates is non-straightforward for the researcher, but could be an ideal task for trained AI algorithms.
3. Although complexity is very difficult to define, hierarchical organization seems to be crucial for the emergence of complex behaviour in systems composed of interacting units.
4. There are still open questions regarding the magnetic phase diagram of CaFe_2O_4 and especially more attention should be given to the effects of applied magnetic fields.
5. Referring to binary oxides as “simple oxides” sounds like a big understatement of their fascinating properties.
6. Apparently, it is not a talk about antiferromagnets if it doesn't start with Louis Néel famous quote “[antiferromagnets are] interesting but useless”. Researchers should apply more of their creativity in talks introductions.
7. Often a simple but carefully studied and concrete plan is better than a rough genial idea.
8. When starting a new project, no matter how fundamental, the sustainability of the materials and methods chosen should be taken into account from the early stages.
9. Reserving positions exclusively for women might not be the best way to fight gender bias in the scientific community, instead we should consider rethinking the criteria used to select the applicants.