

Abstract Submitted
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Search for uniform periodicity around the chemical window in manganites¹ NEIL MATHUR, SUSAN COX, University of Cambridge, TONY WILLIAMS, PAUL ATTFIELD, University of Edinburgh, PAUL MIDGLEY, University of Cambridge — We have recently shown that the low temperature superstructure in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x \geq 0.5$) possesses a uniform modulation that is not consistent with the charge-ordered stripe picture [cond-mat/0308581]. Here we investigate whether this phenomenon is confined to $(\text{La,Ca})\text{MnO}_3$ or whether it arises in other manganites where the tendency to charge localisation is stronger.

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