

Abstract Submitted
for the MAR17 Meeting of
The American Physical Society

Modelling domain wall dynamics in hexagonal manganites

SERGEY ARTYUKHIN, URKO PETRALANDA, Italian Institute of Technology,
XIAOYU WU, University of Texas-Austin, SANG-WOOK CHEONG, Rutgers, The
State University of New Jersey, KEJI LAI, University of Texas-Austin — We present
model describing low-frequency dynamics of coupled trimerization and ferroelectric
domain walls in hexagonal YMnO₃. The model parameters are extracted from ab-
initio calculations.

Sergey Artyukhin
Italian Institute of Technology

Date submitted: 11 Nov 2016

Electronic form version 1.4