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X-Ray diffraction analysis of B-site diploe-like substitutions in Barium Titanate THOMAS MION, STEVEN TIDROW, University of Texas-Pan American — An investigation of phase transitions in dipole like B-site substituted perovskites is reported. Several doped Barium Titanite materials were examined over a temperature range of 173 k to1200 K. Their structural changes were examined by X-Ray diffraction as a function of temperature. Several phase transitions of the doped Barium Titanate have noted and characterized. This material is based upon work supported by, or in part by, the U.S. Army Research Laboratory and the U.S. Army Research Office under contract/grant number W911NF-08-1-0353.

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