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On Structural States of Multiferroic InMnO₃ TREVOR TYSON, TIAN YU, New Jersey Institute of Technology, JIANMING BAI, MILINDA ABEYKOON, Brookhaven National Laboratory, ROGER LALANCETTE, Rutgers University — InMnO₃ (with small R site ion) was recently found to be ferroelectric and to crystallize with space group P6₃cm under certain preparation conditions (Appl. Phys. Lett. 102, 172901 (2013)). We have conducted detailed structural studies to explore the phase diagram and to identify the structural forms of InMnO₃ under varying preparation conditions. Detailed diffraction measurement results will be presented. This work is supported by DOE Grant DE-FG02-07ER46402.

Trevor Tyson
New Jersey Institute of Technology

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