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Structural Stability of Nano-scale SrTiO$_3$ Under Pressure HAN
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Brook — The bulk phase of SrTiO$_3$ (STO) is paraelectric and exhibits a structural
phase transition near $\sim 6$ GPa under hydrostatic pressure. It has recently been
found that nano-scale STO is polar under ambient conditions. We have conducted
pressure dependent structural measurements on monodispersed nano-scale samples
with 10 nm and 83 nm particle size. The structures of both samples were explored
and the results are compared with the reported studies of bulk STO. This work is
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