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A series of modulated states in the dimerized IrTe₂ V. KIRYUKHIN, L.G. PASCUT, S.-W. CHEONG, Rutgers University, M.J. GUTMANN, ISIS, J.J. YANG, Pohang University — IrTe₂ is a layered compound exhibiting stripes of dimerized Ir ions. With decreasing temperature, a series of structures with different periodicities is observed. These structures are distinguished by the arrangement of the dimerized stripes, as found using x-ray diffraction. The structural transitions appear to be driven by the Ir dimerization and Ir-Ir bonding in this compound.

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