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Single-Crystal Growth of the Low-Dimensional Antiferromagnet $NiTa_2O_6$[1] AARON SCHYE, SUELI MASUNAGA, J.J. NEUMEIER, Montana State Univ — Single crystals of the low-dimensional antiferromagnet $NiTa_2O_6$ were prepared via the floating zone method and chemical vapor transport with $TeCl_4$ as the transport agent. X-ray powder diffraction was used to verify the sample purity and the single crystals were oriented using Laue diffraction. The results of magnetic susceptibility, specific heat, and thermal expansion measurements will be presented.

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