

Abstract Submitted  
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**Crystal Growth of Quasi-One Dimensional  $\text{SrNbO}_{3.41}$  and  $\text{LaTiO}_{3.41}$** <sup>1</sup> ANN DEML, University of Wisconsin-River Falls, C. A. M. DOS SANTOS, Escola de Engenharia de Lorena-USP, JOHN NEUMEIER, B. D. WHITE, Montana State University — Single crystals of  $\text{SrNbO}_{3.41}$  and  $\text{LaTiO}_{3.41}$  were grown in order to investigate the physical properties of these quasi- one dimensional conductors. Single crystals growth was accomplished with an optical image furnace; characterization was performed with X-ray powder diffraction. The resistance and heat capacity of  $\text{SrNbO}_{3.41}$  were measured in the temperature range  $300 \text{ K} > T > 0.3 \text{ K}$ .  $\text{SrNbO}_{3.41}$  was annealed to examine the influence of oxygen content on the electrical resistivity. The Debye temperature and electronic heat capacity coefficient of  $\text{SrNbO}_{3.41}$  were found to be  $458.5 \pm 0.2 \text{ K}$  and  $0.77 \pm 0.07 \text{ mJ/mol K}$  respectively.

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