

Abstract Submitted  
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**Preparation and physical properties of  $(M_{1-x}Yb_x)Fe_2As_2$  (M = Ca, Ba) single crystals**<sup>1</sup> S.C. CHEN, K.J. SYU, W.H. LEE, Department of Physics, National Chung Cheng University, Ming-Hsiung, Chia-Yi, Taiwan, ROC, Y.Y. CHEN, Institute of Physics, Academia Sinica, Taipei, Taiwan, ROC — As judged by  $x$ -ray diffraction data, single crystals in the series  $(M_{1-x}Yb_x)Fe_2As_2$  (M = Ca, Ba) with  $0 < x < 0.22$  have been made by flux method. Magnetic and electrical properties as well as the specific heat data in the systems  $(M_{1-x}Yb_x)Fe_2As_2$  (M = Ca, Ba) investigated will be discussed.

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