

Abstract Submitted
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A Possible New Phase in Ba-Fe-As System BING LV, FENG CHEN, YUYI XUE, C.W. CHU¹, Dept. of Physics and Texas Center for Superconductivity, University of Houston, Houston, TX 77204-5002 — A new compound in Ba-Fe-As system has been discovered. Single crystals were successfully synthesized from Sn flux. The resistivity reaches a flat minimum around 110 K, then increases drastically at ~ 80 K and reaches a maximum at ~ 70 K. The paramagnetic susceptibility shows a SDW-like anomaly around 80 K. The compound is also characterized by X-ray diffraction and electron microscope. The detailed structure analysis will be presented.

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