

Abstract Submitted  
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**Pressure-temperature phase diagrams of  $\text{FeSe}_{1-x}\text{S}_x$  superconductor**<sup>1</sup> LI XIANG, UDHARA KALUARACHCHI , ANNA BOHMER , Iowa State Univ Ames Laboratory, VALENTIN TAUFOR, University of California, Davis, MAKARIY TANATAR, RUSLAN PROZOROV, SERGEY BUD'KO, PAUL CANFIELD, Iowa State Univ Ames Laboratory — The pressure dependence of the superconducting, magnetic and structural transition temperatures and of the upper critical field were studied on sulfur-doped single crystalline FeSe. Both inter-plane and inplane resistance were measured under hydrostatic pressures up to 1.8 GPa with magnetic fields parallel to tetragonal  $c$ -axis. We will present the pressure-temperature phase diagrams of  $\text{FeSe}_{1-x}\text{S}_x$ . Different doping will be compared and discussed, specifically in the context of potential chemical pressure effects.

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