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Superconductivity in binary FeS single crystals DANIEL CAMPBELL, CHRIS ECKBERG, SHANTA SAHA, CHRIS BORG, XIUQUAN ZHOU, EFRAIN RODRIGUEZ, JOHNPIERRE PAGLIONE, Univ of Maryland-College Park — FeS is the third recently discovered member of the superconducting binary iron-chalcogenide series that includes the well-known FeSe and $FeSe_{1-x}Te_x$ members. Grown via hydrothermal techniques, single crystals of FeS have been characterized using transport, thermodynamic and magnetic techniques. We will review experimental results and compare with the unconventional superconducting properties of the selenide and telluride counterparts.

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