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Copper Substituted Iron Telluride: A Phase Diagram PATRICK VALDIVIA, UC Berkeley, BIRGENEAU GROUP TEAM, SSRL BEAMLINE 2-1 COLLABORATION, NIST BT-1 COLLABORATION — Investigations of superconductivity in the FeCh family (Ch=S,Se,Te) have produced rich physics and notable materials challenges despite the ostensible simplicity of thE system. We have studied the effects of copper substitution in iron-telluride. We map out basic physical parameters of this phase diagram and invesitgate structure-property relationships through a variety of transport and diffraction measurements.

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