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**Quantum Criticality in CeMIn<sub>5-x</sub>Sn<sub>x</sub> (M = Rh, Co)** FILIP RONNING, ED BAUER, Los Alamos National Laboratory, C. CAPAN, Louisiana State University, Y. TOKIWA, J.D. THOMPSON, J.L. SARRAO, R. MOVSHOVICH, Los Alamos National Laboratory — Non-Fermi liquid behavior, as characterized by a T-linear resistivity and a T log(T) behavior in specific heat, is observed in zero field in the heavy fermion system CeCoIn<sub>5</sub>. The application of magnetic field has revealed a field tuned quantum critical point surprisingly coincident with the superconducting H<sub>c2</sub>. We present data that shows the application of pressure reduces the critical field H<sub>QCP</sub> more rapidly than H<sub>c2</sub> is suppressed. We also investigate doping studies which show an anisotropically field tuned QCP in CeRhIn<sub>5-x</sub>Sn<sub>x</sub> at x=1.0, the critical doping where antiferromagnetism is suppressed, while results on CeCoIn<sub>5-x</sub>Sn<sub>x</sub> maintains that the quantum critical field and the superconducting upper critical field are intimately connected. We attempt to reconcile whether all the critical behavior in the CeMIn<sub>5</sub> family can have a common origin.

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