Quantum criticality in an itinerant antiferromagnet  RAFAEL JARAMILLO, Harvard University, YEJUN FENG, Argonne National Laboratory, JIYANG WANG, THOMAS ROSENBAUM, The University of Chicago — Recent x-ray diffraction measurements have revealed a pressure-tuned continuous quantum phase transition in antiferromagnetic Cr [1]. High pressure transport results expose a crossover to a narrow fluctuation-dominated quantum critical regime at high pressure and low temperature. The discovery and description of a continuous quantum critical regime in this pure model system has broad implications for studies of quantum criticality and marginally magnetic materials.