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Emergent fluctuation hot spots on the Fermi surface of CeIn₃ in strong magnetic fields

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de Haas-van Alphen measurements on CeIn₃ in pulsed magnetic fields of up to 65 T reveal an increase in the quasiparticle effective mass with field concentrated at “hot spots” on the Fermi surface as the Neel phase is suppressed. As well as revealing the existence of fluctuations deep within the antiferromagnetic phase, these data suggest that a possible new type of quantum critical point may exist in strong magnetic fields that involves only parts of the Fermi surface. Recent specific heat and Hall effect data obtained at high magnetic fields will be discussed in this context. Work done in collaboration with A. Silhanek, N. Harrison, and T. Ebihara.