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Superconducting fluctuation effect in $CaFe_{0.88}Co_{0.12}AsF$[1] H. XIAO, Center for High Pressure Science and Technology Advanced Research , B. GAO, Center for High Pressure Science and Technology Advanced Research, Beijing , Y. H. MA, State Key Laboratory of Functional Materials for Informatics, Shanghai Institute of Microsystem and Information Technology, X. J. LI, Center for High Pressure Science and Technology Advanced Research, Beijing , G. MU, T. HU, State Key Laboratory of Functional Materials for Informatics, Shanghai Institute of Microsystem and Information Technology — Out-of-plane angular dependent torque measurements were performed on $CaFe_{0.88}Co_{0.12}AsF$ single crystals. Superconducting fluctuations, featured by magnetic field enhanced and exponential temperature dependent diamagnetism, are observed above the superconducting transition temperature T_c, which is similar to that of cuprate superconductors, but less pronounced. In addition, the ratio of T_c versus superfluid density follows well the Uemura line of high-T_c cuprates, which suggests the exotic nature of the superconductivity in $CaFe_{0.88}Co_{0.12}AsF$

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Hong Xiao
Center for High Pressure Science and Technology Advanced Research

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