

Supplementary Information

Structural and magnetic phase diagram of $\text{CeFeAsO}_{1-x}\text{F}_x$ and its relationship to high-temperature superconductivity

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Figure S1 below shows the BT-7 measurements on CeFeAsO at 1.5 K, 40 K, and 160 K. The $(0,0,1)_M$ peak corresponds to a doubling of the c -axis unit cell for the Ce magnetic order, which disappears above the Ce Néel temperature of ~ 4 K. Comparison of the 40 K and the 160 K scans reveals the positions of the Fe magnetic peaks as shown in Fig. 1c. Our detailed refinements for the determination of the Ce magnetic structure and its interaction with the iron spins will be published separately.

