

Abstract Submitted
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Application of LDA+DMFT to systems near volume collapse transition KRISTJAN HAULE — The physical origin of the volume collapse transition in Cerium and related materials will be addressed. Using recently developed self-consistent LDA+DMFT method, we will show that the Kondo Volume collapse model, involving both the f and spd electrons, describes the optical data better than a Mott transition picture. We predict the full temperature dependence of the optical spectra and find the development of a hybridization pseudogap in the vicinity of the collapse transition.

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