

# Electronic phase transitions of cerium metal

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The model recently proposed by Ramírez and Falicov is generalized by the incorporation of the spin-orbit splitting of the 4f shell. This generalization provides an understanding of the fractional valence and magnetic susceptibility of  $\gamma$ -cerium and suggests a mechanism to drive the  $\gamma$ - $\beta$  phase transition. © 1972 The American Physical Society.