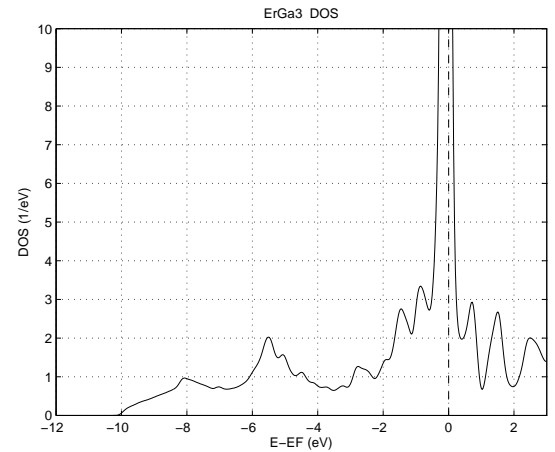
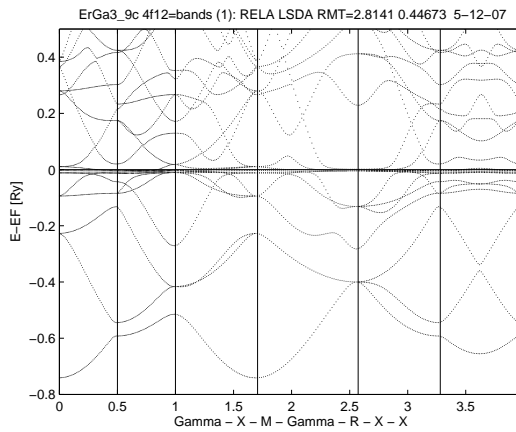


Ein Beispiel aus der Werkstatt: Erbium-Gallium-3

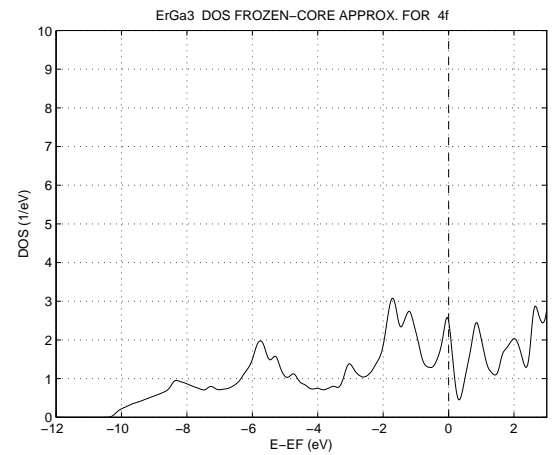
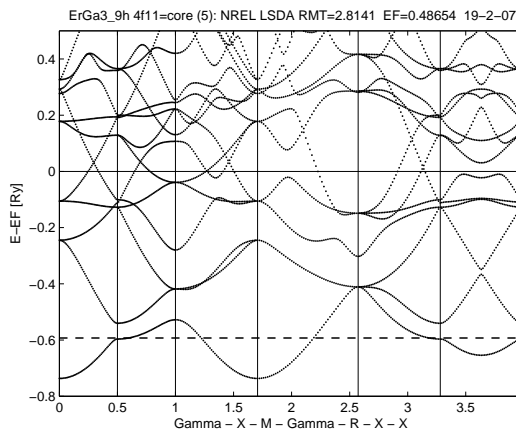
Erbium Er Z=68 [Kr] $4d^{10} 4f^{11} 5s^2 5p^6 5d^1 6s^2$
 Gallium Ga Z=31 [Ne] $3s^2 3p^6 3d^{10} 4s^2 4p^1$

4f-Elektronen sind **Valenz-Elektronen**



$$\gamma_{spez.WKoeff} \propto N(E_F) = 293 J / (mol K^2)$$

4f-Elektronen sind **Core-Elektronen**
 (*frozen core treatment*)



$$\gamma_{spez.WKoeff} \propto N(E_F) = 20 J / (mol K^2)$$