

Übungen zur
CiS-Computational Physics

– Blatt 9 –

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zum 17.12.2015

Aufgabe 1) TB-model for HTSC

Calculate DOS for 2-dim. TB-model of High-temperature superconductors.

Aufgabe 2) Electronic structure of Si

Calculate band structure of Si using MindLab-software. How large is the bandgap?

Aufgabe 3) Magnetism of Iron

Calculate magnetic band structure of BCC and FCC Fe. How large is magnetic moment of iron?