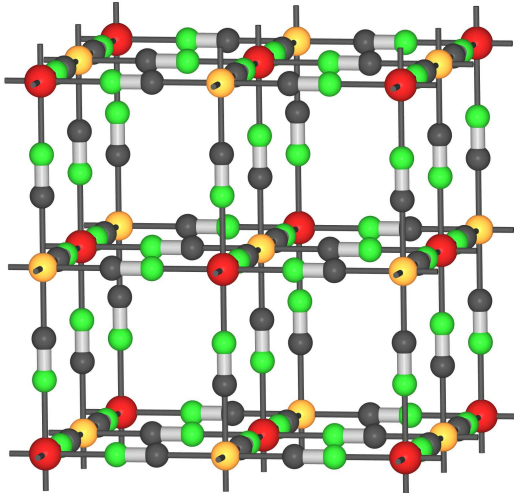
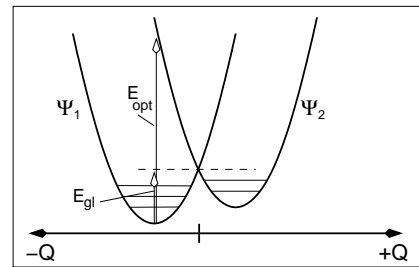
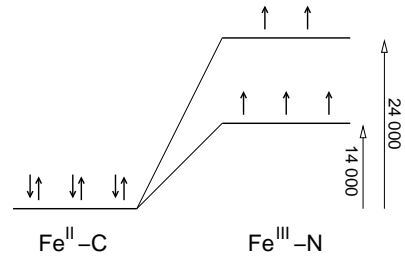


2.3.1. MM-CT (Gemischtvalenz) (Forts.)



$[\text{Fe}^{\text{II}}\text{Fe}^{\text{III}}(\text{CN})_6]^-$ : Farbträger in Berliner Blau

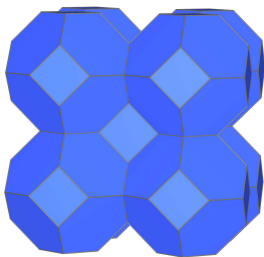
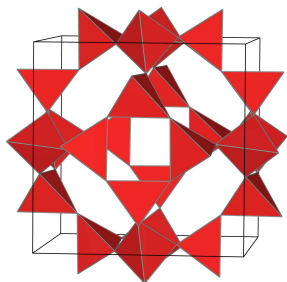


$$\Psi_1 = 1/N (\Psi_a + 0.1 \Psi_b) \quad \Psi_a : \text{Fe}^{\text{II}} - \text{C} - \text{N} - \text{Fe}^{\text{III}}$$

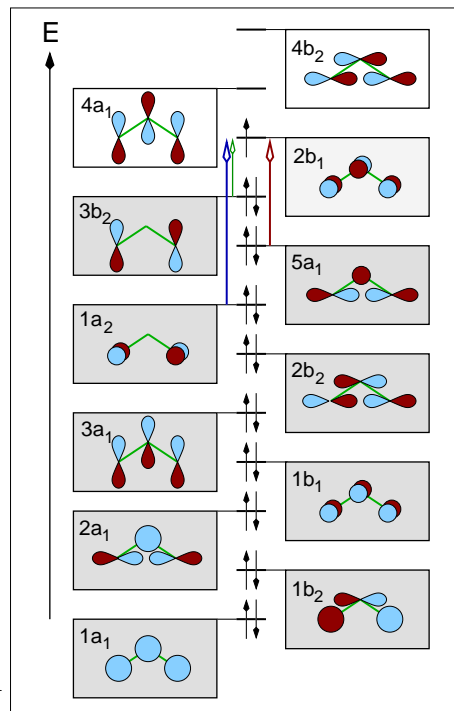
mit

$$\Psi_2 = 1/N (\Psi_b + 0.1 \Psi_a) \quad \Psi_b : \text{Fe}^{\text{III}} - \text{C} - \text{N} - \text{Fe}^{\text{II}}$$

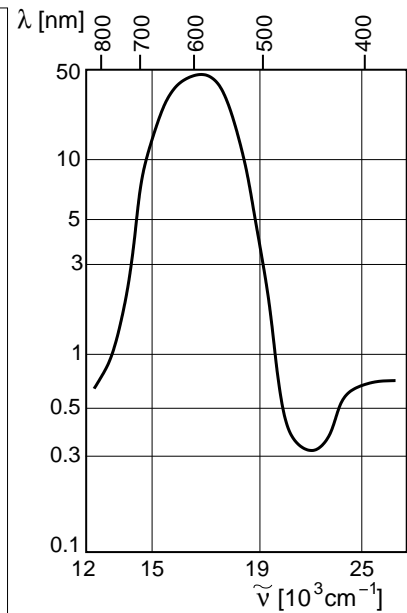
2.4. Übergänge in Radikal-Ionen



Sodalith-Gerüst von Ultramarinen  $\text{Na}_7[\text{Al}_6\text{Si}_6\text{O}_{24}](\text{S}_3^-)$



Vereinfachtes MO-Schema des  $\text{S}_3^-$ -Ions



Spektrum von Ultramarin-Blau