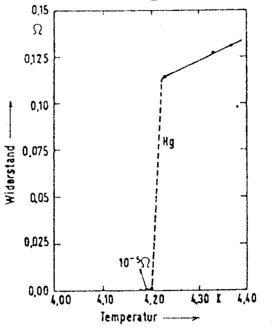
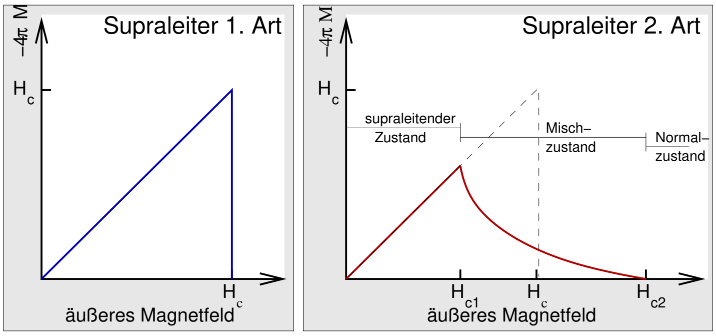
2.3. Supraleiter

2.3.1. Allgemeines



SL von Hg (1913)

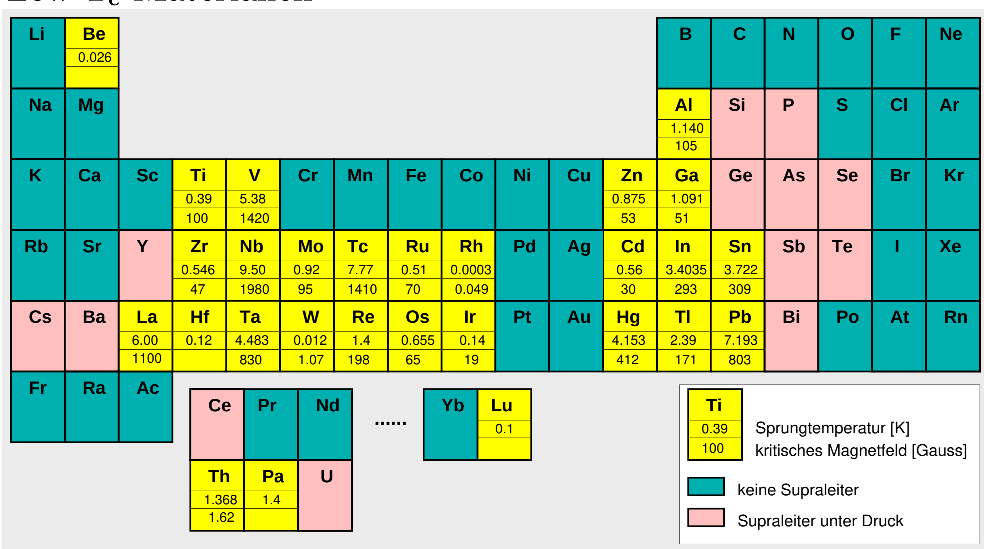


Supraleiter 1. und 2. Art

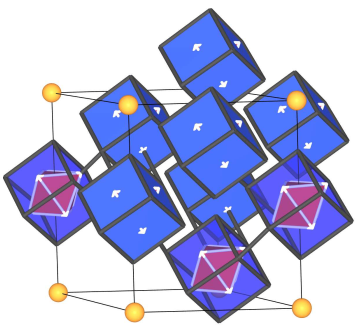
Low-T_c-SL		High-T_c-SL	
Verbindung	T_c[K]	Verbindung	T_c [K]
Hg	4.15	$YBa_2Cu_3O_{7-x}$	93
Nb	9.5	$YBa_2Cu_4O_{8+x}$	80
NbN	16.0	$Bi_{2+x}(Sr,Ca)_3Cu_3O_{7-x}$	110
$Pb[Mo_6S_8]$	14.4	$Tl_2Ba_2Ca_2Cu_2O_{10}$	125
K_3C_{60}	18.0	$HgBa_2Ca_2Cu_3O_8$	130
Nb_3Sn	18.05		
Nb_3Ge	23.2	$La_{1.8}Sr_{0.2}CuO_4$	30
MgB_2	39		

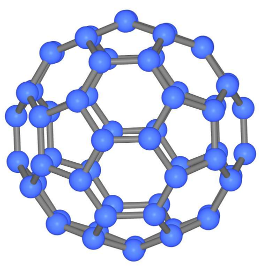
Sprungtemperaturen verschiedener Supraleiter

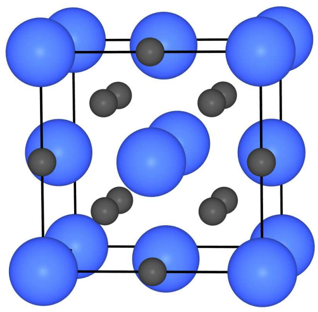
2.3.2. Low-T_c-Materialien



Supraleitende Elemente







Chevrell-Phase $Pb[Mo_6S_8]$

K_3C_{60}