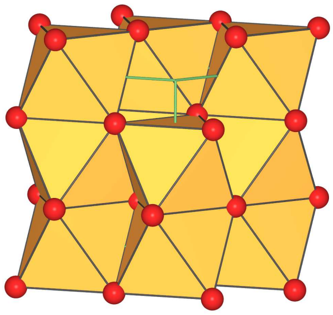
8. NiAs-Phasen und Varianten (A2-B2-Systeme)

	Ge		Sn		As		Sb		Bi	Se		Te	
	A_2B	AB	A_2B	AB	AB	AB_2	AB	AB_2	AB	AB	AB_2	AB	AB_2
Ti	-	-	-	-	-	-	-	-	-	-	$\square$	-	$\square$
V	-	-	-	-	-	-	-	-	-	$\bullet$	$\square$	$\bullet$	-
Cr	-	-	-	-	$\bullet$	-	$\bullet$	-	-	$\bullet$	-	$\bullet$	-
Mo	-	-	-	-	-	-	-	-	-	-	M		M
W	-	-	-	-	-	-	-	-	-	-	M		M
Mn	$\circ$	-	$\circ$	-	$\bullet$	-	$\bullet$	-	$\bullet$	-	-	$\bullet$	$\diamond$
Fe	$\circ$	-	-	$\bullet$	$\bullet$	-	$\bullet$	-	-	$\bullet$	-	$\bullet$	-
Co	$\circ$	-	-	$\bullet$	$\bullet$	-	$\bullet$	-	-	$\bullet$	$\diamond$	$\bullet$	$\square$
Ni	$\circ$	$\bullet$	-	$\bullet$	$\bullet$	-	$\bullet$	-	$\bullet$	$\bullet$	$\diamond$	$\bullet$	$\square$
Ru	-	-	-	-	-	-	-	-	-	-	$\diamond$	-	$\diamond$
Pd	-	$\bullet$	-	$\bullet$	-	$\diamond$	$\bullet$	$\diamond$	-	-	-	$\bullet$	$\square$
Os	-	-	-	-	-	-	-	-	-	-	$\diamond$	-	$\diamond$
Pt	-	$\bullet$	-	$\bullet$	-	$\diamond$	$\bullet$	$\diamond$	$\bullet$	-	$\square$	$\bullet$	$\square$
Cu	-	-	-	$\bullet$	-	-	-	-	-	-	-	-	-
Au	-	-	-	$\bullet$	-	-	-	$\diamond$	-	-	-	-	-

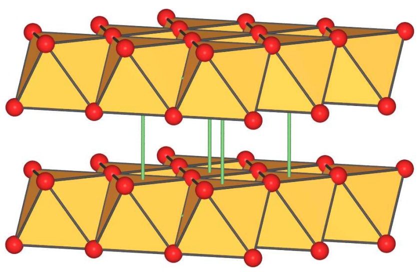
7.1. NiAs



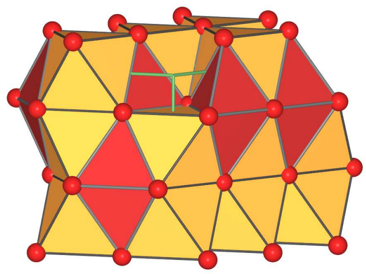
NiAs-Struktur ($NiAs_6$-Oktaeder)

B -Element	EN	Bereich der c/a-Verhältnisse
S	2.5	1.54 - 1.75
Se	2.4	1.46 - 1.74
Te	2.1	1.37 - 1.66
As	2.0	1.39 - 1.53
Sb	1.9	1.25 - 1.40
Bi	1.9	1.31 - 1.42
Ge	1.8	1.25 - 1.27
Sn	1.8	1.21 - 1.40

7.2. Varianten des NiAs-Typs (CdI_2 und Ni_2Ge)

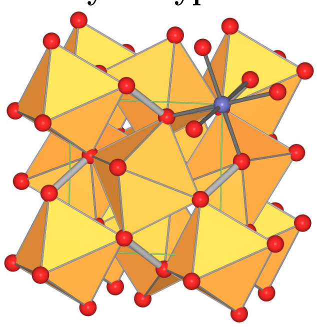


CdI_2-Struktur (CdI_6-Oktaeder)



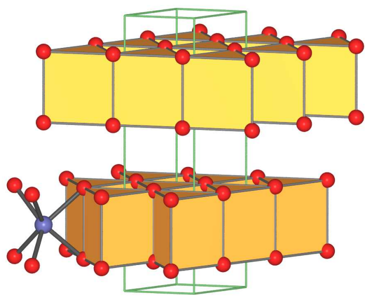
Ni_2Ge-Struktur ($NiGe_6$: Oktaeder; $NiGe_5$: trigonale Bipyramiden)

7.3. Pyrit-Typ



Pyrit-Struktur

7.4. MoS_2-Typ



MoS_2-Struktur (MoS_6: trigonale Prismen)