

Figure S1. Rietveld refinement results from XRD-data of $([\text{SnSe}]_{1+\delta})_4(\text{NbSe}_2)_1$. Space group: $P-3m1$

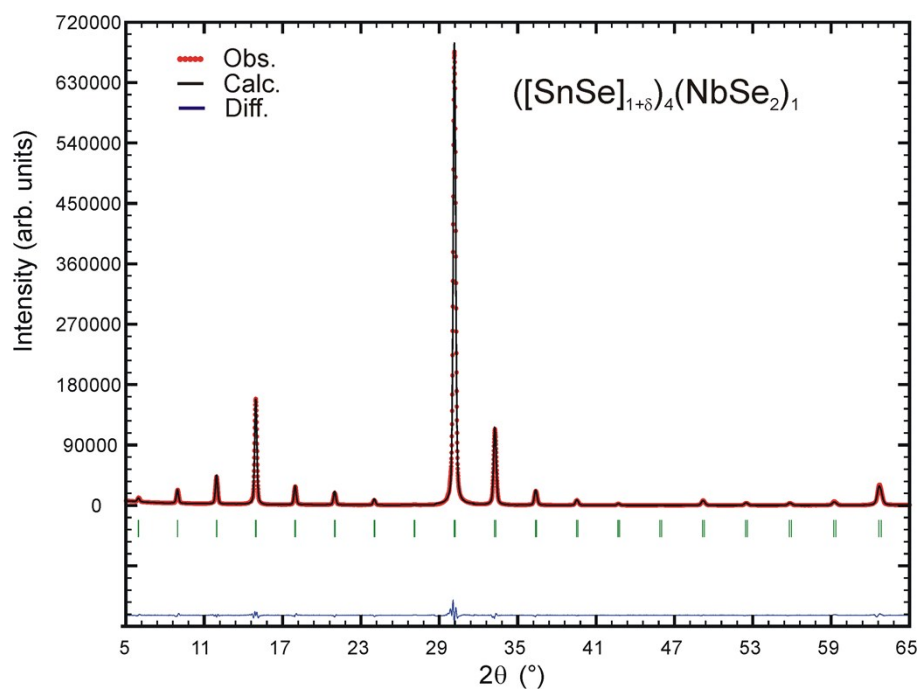


Figure S2. Rietveld refinement results from XRD-data of $([\text{SnSe}]_{1+\delta})_4(\text{NbSe}_2)_2$. Space group: $P-3m1$

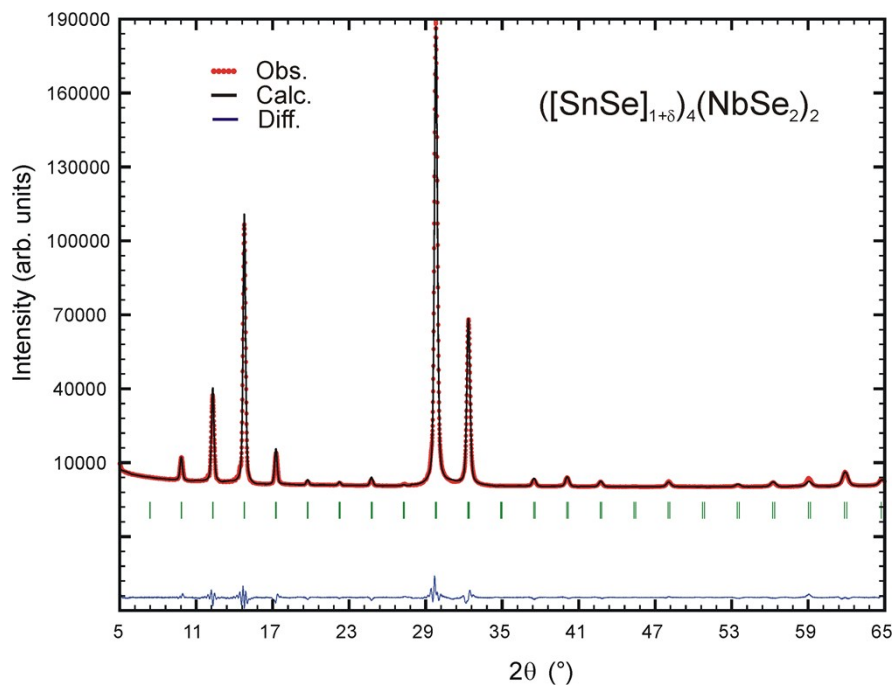


Table S1. Rietveld refinement results from XRD-data. Space group: $P-3m1$

	(4,2)		(4,1)
Composition from refinement	$([\text{SnSe}]_{1.26})_4(\text{NbSe}_2)_2$	Composition from refinement	$([\text{SnSe}]_{1.22})_4(\text{NbSe}_2)_1$
Radiation	Bruker D8, Cu K_α	Radiation	Bruker D8, Cu K_α
2θ range (degrees)	$3 \leq 2\theta \leq 65$	2θ range (degrees)	$3 \leq 2\theta \leq 65$
c (nm)	3.59712(7)	c (nm)	2.96313(4)
Reflections in refinement	25	Reflections in refinement	20
Number of variables	19	Number of variables	16
$R_F = \Sigma F_o - F_c / \Sigma F_o$	0.0386	$R_F = \Sigma F_o - F_c / \Sigma F_o$	0.0176
$R_I = \Sigma I_o - I_c / \Sigma I_o$	0.0276	$R_I = \Sigma I_o - I_c / \Sigma I_o$	0.0176
$R_{wP} = [\Sigma w_i y_{oi} - y_{ci} ^2 / \Sigma w_i y_{oi} ^2]^{1/2}$	0.0842	$R_{wP} = [\Sigma w_i y_{oi} - y_{ci} ^2 / \Sigma w_i y_{oi} ^2]^{1/2}$	0.0693
$R_P = \Sigma y_{oi} - y_{ci} / \Sigma y_{oi} $	0.0555	$R_P = \Sigma y_{oi} - y_{ci} / \Sigma y_{oi} $	0.0446
$R_e = [(N - P + C) / (\Sigma w_i y_{oi}^2)]^{1/2}$	0.0163	$R_e = [(N - P + C) / (\Sigma w_i y_{oi}^2)]^{1/2}$	0.0123
$\chi^2 = (R_{wP} / R_e)^2$	26.8	$\chi^2 = (R_{wP} / R_e)^2$	36.0
Atom parameters			
Se1 in $2c(z), z$	0.04374(4)	Nb1 in $1a(\theta)$	
Occ.	1.0	Occ.	1.0
Nb1 in $2c(z), z$	0.08874(3)	Se1 in $2c(z), z$	0.05534(2)
Occ.	1.0	Occ.	1.0
Se2 in $2c(z), z$	0.13369(3)	Sn1 in $2c(z), z$	0.15449(6)
Occ.	1.0	Occ.	1.22(1)
Sn1 in $2c(z), z$	0.21405(6)	Se2 in $2c(z), z$	0.1679(1)
Occ.	1.26(1)	Occ.	1.22(1)
Se3 in $2c(z), z$	0.2268(1)	Se3 in $2c(z), z$	0.2462(1)
Occ.	1.26(1)	Occ.	1.22(1)
Se4 in $2c(z), z$	0.2911(1)	Sn2 in $2c(z), z$	0.25743(6)
Occ.	1.26(1)	Occ.	1.22(1)
Sn2 in $2c(z), z$	0.2986(1)	Sn3 in $2c(z), z$	0.35111(7)
Occ.	1.26(1)	Occ.	1.22(1)
Sn3 in $2c(z), z$	0.37713(7)	Se4 in $2c(z), z$	0.3621(1)
Occ.	1.26(1)	Occ.	1.22(1)
Se5 in $2c(z), z$	0.3848(1)	Se5 in $2c(z), z$	0.4429(1)
Occ.	1.26(1)	Occ.	1.22(1)
Se6 in $2c(z), z$	0.45507(2)	Sn4 in $2c(z), z$	0.4530(1)
Occ.	1.26(1)	Occ.	1.22(1)
Sn4 in $2c(z), z$	0.45895(2)		
Occ.	1.26(1)		