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Table S1. Powder Diffraction data for α-CsCu $S_xSe_{(4-x)}$, $x \approx 0.5$.

#	h	k	l	$2\Theta_{obs}$	$2\Theta_{calc}$	$\delta(2\Theta)$	d_{calc}
1	0	1	1	11.779	11.721	-0.058	7.544
2	0	0	2	12.699	12.725	0.026	6.951
3	0	1	2	16.137	16.111	-0.026	5.497
4	1	1	0	18.725	18.808	0.083	4.714
5	1	1	1	19.873	19.870	-0.003	4.465
6	1	0	2	20.418	20.487	0.069	4.332
7	0	2	1	20.820	20.769	-0.051	4.273
8	1	1	2	22.736	22.773	0.037	3.902
9	1	2	0	25.524	25.515	-0.009	3.488
10	1	1	3	26.948	26.958	0.010	3.305
11	0	1	4	27.516	27.497	-0.019	3.241
12	1	0	4	30.336	30.338	0.002	2.944
13	0	3	1	30.506	30.519	0.013	2.927
14	1	2	3	32.054	32.091	0.037	2.787
15	0	2	4	32.570	32.552	-0.018	2.748
16	2	1	1	34.467	34.471	0.004	2.600
17	0	3	3	35.641	35.675	0.034	2.515
18	2	1	2	36.313	36.294	-0.019	2.473
19	2	2	0	38.185	38.148	-0.037	2.357
20	2	1	3	39.170	39.169	-0.001	2.298
21	0	1	6	40.171	40.162	-0.009	2.243
22	2	2	4	46.611	46.515	-0.096	1.951
23	2	3	3	48.874	48.883	0.009	1.862
24	0	2	7	50.197	50.189	-0.008	1.816
25	2	2	5	50.735	50.735	0.000	1.798
26	1	4	4	51.131	51.120	-0.011	1.785
27	2	3	4	52.070	52.076	0.006	1.755
28	2	4	0	52.423	52.418	-0.005	1.744
29	2	4	2	54.129	54.174	0.045	1.692
30	0	3	7	55.441	55.479	0.038	1.655
31	1	5	4	60.328	60.311	-0.017	1.533

$R = 0.037 = \Sigma(2\Theta_{obs}-2\Theta_{calc})^2/(N_{hkl}-N_{var})$: N_{hkl} = Number of indexed reflections

N_{var} = Number of refined parameters

Table S2. Powder Diffraction data for α-$CsCuS_xSe_{(4-x)}$, $x \approx 1.6$.

#	h	k	l	$2\Theta_{obs}$	$2\Theta_{calc}$	$\delta(2\Theta)$	d_{calc}
1	0	1	1	11.789	11.856	0.067	7.458
2	0	0	2	12.814	12.838	0.024	6.890
3	0	1	2	16.188	16.277	0.089	5.441
4	1	1	0	19.112	19.123	0.011	4.637
5	0	2	0	20.036	20.005	-0.031	4.435
6	1	1	1	20.212	20.187	-0.025	4.395
7	1	0	2	20.761	20.787	0.026	4.270
8	0	2	1	20.940	21.027	0.087	4.222
9	1	1	2	23.138	23.100	-0.038	3.847
10	1	0	3	25.340	25.357	0.017	3.510
11	1	2	0	25.887	25.899	0.012	3.437
12	1	2	1	26.717	26.707	-0.010	3.335
13	1	1	3	27.335	27.306	-0.029	3.263
14	0	1	4	27.743	27.758	0.015	3.211
15	1	2	2	28.938	29.006	0.068	3.076
16	1	0	4	30.742	30.694	-0.048	2.911
17	1	1	4	32.340	32.347	0.007	2.765
18	2	1	1	35.094	35.087	-0.007	2.555
19	0	3	3	36.071	36.100	0.029	2.486
20	1	2	4	36.931	36.911	-0.020	2.433
21	2	1	2	36.931	36.915	-0.016	2.433
22	0	2	5	38.388	38.425	0.037	2.341
23	2	0	3	38.388	38.430	0.042	2.341
24	1	3	3	39.838	39.835	-0.003	2.261
25	0	1	6	40.587	40.542	-0.045	2.223
26	2	2	2	41.108	41.038	-0.070	2.198
27	0	4	4	48.818	48.803	-0.015	1.865
28	2	3	3	49.642	49.638	-0.004	1.835
29	3	0	1	50.704	50.737	0.033	1.798
30	2	2	5	51.471	51.462	-0.009	1.774
31	0	5	1	51.974	51.929	-0.045	1.759
32	2	1	6	53.178	53.163	-0.015	1.721
33	1	3	6	53.178	53.191	0.013	1.721
34	3	1	2	53.178	53.198	0.020	1.720
35	3	2	1	55.080	55.072	-0.008	1.666

$R = 0.039 = \Sigma(2\Theta_{obs}-2\Theta_{calc})^2/(N_{hkl}-N_{var})$: N_{hkl} = Number of indexed reflections
N_{var} = Number of refined parameters

Table S3. Powder Diffraction data for α-CsCu $S_xSe_{(4-x)}$, $x \approx 2$.

#	h	k	l	$2\Theta_{obs}$	$2\Theta_{calc}$	$\delta(2\Theta)$	d_{calc}
1	0	1	1	11.942	11.908	-0.034	7.426
2	0	0	2	12.938	12.886	-0.052	6.864
3	1	1	0	19.042	19.095	0.053	4.644
4	0	2	0	20.087	20.098	0.011	4.415
5	1	1	2	23.053	23.104	0.051	3.847
6	1	0	3	25.369	25.373	0.004	3.507
7	1	2	0	25.941	25.933	-0.008	3.433
8	1	2	1	26.758	26.746	-0.012	3.330
9	1	1	3	27.361	27.338	-0.023	3.260
10	0	1	4	27.902	27.867	-0.035	3.199
11	1	2	2	29.024	29.059	0.035	3.070
12	1	2	3	32.558	32.580	0.022	2.746
13	1	3	1	35.151	35.225	0.074	2.546
14	1	2	4	36.994	37.007	0.013	2.427
15	2	1	3	39.838	39.744	-0.094	2.266
16	0	1	6	40.663	40.702	0.039	2.215
17	2	2	3	43.693	43.677	-0.016	2.071
18	3	0	2	51.942	51.930	-0.012	1.759
19	2	4	0	53.345	53.328	-0.017	1.717
20	1	5	3	58.519	58.470	-0.049	1.577
21	3	2	4	61.255	61.303	0.048	1.511

$R = 0.044 = \Sigma(2\Theta_{obs}-2\Theta_{calc})^2/(N_{hkl}-N_{var})$: N_{hkl} = Number of indexed reflections
N_{var} = Number of refined parameters