Tabela 1: *Dane strukturalne związku międzymetalicznego* $GdMn_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} $[\AA]$	h	k	l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.7416	2	2	0	14.865	0.1749	1259.2	1220.7	-38.5
2.338	3	1	1	17.45	0.1738	1902.9	2033.3	130.4
2.2385	2	2	2	18.232	0.1734	267.7	405.8	138.1
1.9386	4	0	0	21.082	0.1719	15.7	28.9	13.2
1.779	3	3	1	22.999	0.1707	80.9	0	-80.9
1.5828	4	2	2	25.895	0.1687	475.1	380.6	-94.5
1.4923	3	3	3	27.496	0.1675	147.4	150.9	3.5
1.4923	5	1	1	27.496	0.1675	442.2	452.6	10.4
1.3708	4	4	0	29.988	0.1654	416.9	402.2	-14.7
1.3107	5	3	1	31.397	0.1641	56.9	83.7	26.8
1.2261	6	2	0	33.627	0.1618	180.7	243.9	63.2
1.1825	5	3	3	34.904	0.1605	176	187.2	11.2
1.169	6	2	2	35.321	0.16	75.5	75.4	-0.1
1.1192	4	4	4	36.947	0.1581	3.5	6.3	2.8
1.0858	5	5	1	38.127	0.1566	13.3	19.2	5.9
1.0858	7	1	1	38.127	0.1566	13.3	19.2	5.9
1.0362	6	4	2	40.029	0.1541	173.6	198.2	24.6
1.0095	5	5	3	41.134	0.1525	86.3	94.9	8.6
1.0095	7	3	1	41.134	0.1525	172.6	189.7	17.1
0.9693	8	0	0	42.924	0.1498	46	42.9	-3.1
0.9473	7	3	3	43.97	0.1482	7.1	1.5	-5.6
0.9139	6	6	0	45.67	0.1453	23.5	26.8	3.3
0.9139	8	2	2	45.67	0.1453	47	53.5	6.5
0.8954	5	5	5	46.667	0.1435	15.9	13.8	-2.1
0.8954	7	5	1	46.667	0.1435	95.1	83	-12.1
0.8895	6	6	2	46.996	0.1429	20.5	12	-8.5
0.867	8	4	0	48.293	0.1404	3	0	-3
0.8511	7	5	3	49.249	0.1385	7.9	0	-7.9
0.8511	9	1	1	49.249	0.1385	4	0	-4
0.8266	6	6	4	50.813	0.1351	27.3	24.5	-2.8
0.8129	9	3	1	51.735	0.133	56.5	52	-4.5
0.7914	8	4	4	53.246	0.1294	63	59.5	-3.5
0.7793	7	5	5	54.138	0.1271	2.3	4.9	2.6
0.7793	7	7	1	54.138	0.1271	2.3	4.9	2.6
0.7793	9	3	3	54.138	0.1271	2.3	4.9	2.6
0.7604	8	6	2	55.604	0.1231	33.4	52.6	19.2
0.7604	10	2	0	55.604	0.1231	16.7	26.3	9.6
0.7496	7	7	3	56.471	0.1206	17.6	17.3	-0.3
0.7496	9	5	1	56.471	0.1206	35.2	34.5	-0.7
0.7462	6	6	6	56.758	0.1198	2.7	2.5	-0.2
0.7462	10	2	2	56.758	0.1198	8	7.6	-0.4
0.7231	9	5	3	58.742	0.1135	2.7	0	-2.7
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 9.08$ $R_{wp} = 11.8$ $R_e = 3.78$ $\chi^2 = 9.10$ $a = 7.7543 \pm 0.0009$ $V = 466.260 \pm 0.089$ Udział procentowy fazy: 100%								

Tabela 2: *Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.9}Fe_{0.1})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} [$\AA$]	h	k	l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.72223	2	2	0	14.971	0.160126	932.9	985.7	52.8
2.321525	3	1	1	17.575	0.159225	1405.2	1381.6	-23.6
2.222691	2	2	2	18.363	0.158922	194.1	238.3	44.2
1.924907	4	0	0	21.234	0.157687	13.2	0	-13.2
1.766416	3	3	1	23.164	0.15674	64.5	0	-64.5
1.57168	4	2	2	26.082	0.15512	362.3	342.2	-20.1
1.481794	3	3	3	27.695	0.154123	110.2	113.4	3.2
1.481794	5	1	1	27.695	0.154123	330.6	340.2	9.6
1.361115	4	4	0	30.206	0.152415	310.7	333.7	23
1.301475	5	3	1	31.626	0.151362	49	70.7	21.7
1.217418	6	2	0	33.873	0.149557	142	161.2	19.2
1.174182	5	3	3	35.16	0.148443	133.6	136.5	2.9
1.160763	6	2	2	35.58	0.148067	52.5	56.3	3.8
1.111346	4	4	4	37.219	0.146533	3.8	5.1	1.3
1.078164	5	5	1	38.409	0.145352	12.3	10.1	-2.2
1.078164	7	1	1	38.409	0.145352	12.3	10.1	-2.2
1.028906	6	4	2	40.325	0.143324	140.7	146.4	5.7
1.002406	5	5	3	41.44	0.142069	66.6	68	1.4
1.002406	7	3	1	41.44	0.142069	133.2	136	2.8
0.962454	8	0	0	43.244	0.139912	35	24.1	-10.9
0.940659	7	3	3	44.299	0.138575	7	1.4	-5.6
0.90741	6	6	0	46.013	0.136272	19.6	21	1.4
0.90741	8	2	2	46.013	0.136272	39.3	42	2.7
0.889076	5	5	5	47.018	0.134843	12.4	11.4	-1
0.889076	7	5	1	47.018	0.134843	74.5	68.2	-6.3
0.883208	6	6	2	47.35	0.134358	13.8	10.9	-2.9
0.860845	8	4	0	48.658	0.132377	4.2	2.2	-2
0.845144	7	5	3	49.623	0.130844	8.5	3.9	-4.6
0.845144	9	1	1	49.623	0.130844	4.3	2	-2.3
0.820783	6	6	4	51.2	0.128193	23.6	21.9	-1.7
0.80714	9	3	1	52.13	0.126542	44.8	42.6	-2.2
0.78584	8	4	4	53.654	0.123681	49	50.6	1.6
0.773842	7	5	5	54.555	0.121894	2.7	3.7	1
0.773842	7	7	1	54.555	0.121894	2.7	3.7	1
0.773842	9	3	3	54.555	0.121894	2.7	3.7	1
0.755011	8	6	2	56.033	0.11879	29.8	34.7	4.9
0.755011	10	2	0	56.033	0.11879	14.9	17.3	2.4
0.744351	7	7	3	56.908	0.116845	14.2	14.5	0.3
0.744351	9	5	1	56.908	0.116845	28.3	28.9	0.6
0.740897	6	6	6	57.198	0.116183	1.7	1.8	0.1
0.740897	10	2	2	57.198	0.116183	5.2	5.5	0.3
0.717994	9	5	3	59.2	0.111325	3.5	0	-3.5

Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$
$R_p = 9.94$ $R_{wp} = 12.3$ $R_e = 5.83$ $\chi^2 = 4.48$
$a = 7.382634 \pm 0.000947$
$V = 402.378 \pm 0.089$
Udział procentowy fazy: 100%

Tabela 3: *Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.8}Fe_{0.2})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} [$\AA$]	h	k	l	2Θ(°)	Γ(°)	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.7002	2	2	0	15.094	0.1546	426.9	488.3	61.4
2.3028	3	1	1	17.719	0.1537	643.9	633.9	-10
2.2047	2	2	2	18.514	0.1535	89.2	113.1	23.9
1.9093	4	0	0	21.409	0.1523	6.1	0	-6.1
1.7521	3	3	1	23.356	0.1514	29.7	0	-29.7
1.559	4	2	2	26.299	0.1499	167.4	181	13.6
1.4698	3	3	3	27.925	0.1489	50.9	55.5	4.6
1.4698	5	1	1	27.925	0.1489	152.6	166.6	14
1.3501	4	4	0	30.459	0.1473	143.7	145.5	1.8
1.291	5	3	1	31.891	0.1463	23.1	21	-2.1
1.2076	6	2	0	34.158	0.1446	66.3	70.5	4.2
1.1647	5	3	3	35.456	0.1436	62.1	65.6	3.5
1.1514	6	2	2	35.88	0.1432	24.2	25.9	1.7
1.1024	4	4	4	37.534	0.1418	1.8	0.4	-1.4
1.0694	5	5	1	38.734	0.1407	5.9	1.8	-4.1
1.0694	7	1	1	38.734	0.1407	5.9	1.8	-4.1
1.0206	6	4	2	40.668	0.1388	66.6	78.7	12.1
0.9943	5	5	3	41.793	0.1376	31.3	32.3	1
0.9943	7	3	1	41.793	0.1376	62.5	64.6	2.1
0.9547	8	0	0	43.615	0.1355	16.5	17.4	0.9
0.9331	7	3	3	44.679	0.1343	3.5	3.1	-0.4
0.9001	6	6	0	46.41	0.1321	9.4	9.3	-0.1
0.9001	8	2	2	46.41	0.1321	18.8	18.6	-0.2
0.8819	5	5	5	47.425	0.1308	5.9	5.5	-0.4
0.8819	7	5	1	47.425	0.1308	35.4	33.1	-2.3
0.8761	6	6	2	47.76	0.1303	6.3	5.5	-0.8
0.8539	8	4	0	49.081	0.1284	2.2	2.7	0.5
0.8383	7	5	3	50.055	0.127	4.3	3.3	-1
0.8383	9	1	1	50.055	0.127	2.1	1.7	-0.4
0.8141	6	6	4	51.648	0.1245	11.4	10.2	-1.2
0.8006	9	3	1	52.587	0.123	21.5	20	-1.5
0.7795	8	4	4	54.127	0.1203	23.5	20.6	-2.9
0.7676	7	5	5	55.037	0.1186	1.4	1.2	-0.2
0.7676	7	7	1	55.037	0.1186	1.4	1.2	-0.2
0.7676	9	3	3	55.037	0.1186	1.4	1.2	-0.2
0.7489	8	6	2	56.531	0.1157	14.6	15.9	1.3
0.7489	0	2	0	56.531	0.1157	7.3	8	0.7
0.7383	7	7	3	57.415	0.1138	6.9	7.4	0.5
0.7383	9	5	1	57.415	0.1138	13.8	14.8	1
0.7349	6	6	6	57.708	0.1132	0.8	0.9	0.1
0.7349	0	2	2	57.708	0.1132	2.4	2.7	0.3
0.7122	9	5	3	59.732	0.1086	1.7	0	-1.7

Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$
$R_p = 10.3$ $R_{wp} = 12.9$ $R_e = 5.86$ $\chi^2 = 4.85$
$a = 7.381813 \pm 0.000912$
$V = 402.244 \pm 0.086$
Udział procentowy fazy: 100%

Tabela 4: *!!! UZUPEŁNIĆ !!! Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.7}Fe_{0.3})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} [$\AA$]	h k l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 10.3$ $R_{wp} = 12.9$ $R_e = 5.86$ $\chi^2 = 4.85$ $a = 7.381813 \pm 0.000912$ $V = 402.244 \pm 0.086$ Udział procentowy fazy: 100%						

Tabela 5: *!!! UZUPEŁNIĆ !!! Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.6}Fe_{0.4})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} [$\AA$]	h k l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 10.3$ $R_{wp} = 12.9$ $R_e = 5.86$ $\chi^2 = 4.85$ $a = 7.381813 \pm 0.000912$ $V = 402.244 \pm 0.086$ Udział procentowy fazy: 100%						

Tabela 6: *Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.5}Fe_{0.5})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} $[\AA]$	h	k	l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.654	2	2	0	15.359	0.1084	1459.9	1510.1	50.2
2.2634	3	1	1	18.03	0.1079	2224.7	2291.1	66.4
2.167	2	2	2	18.839	0.1077	320.1	460.2	140.1
1.8767	4	0	0	21.786	0.1069	16.8	12.3	-4.5
1.7222	3	3	1	23.768	0.1063	92.3	0	-92.3
1.5323	4	2	2	26.765	0.1053	557.7	493.5	-64.2
1.4447	3	3	3	28.421	0.1046	173.5	169.2	-4.3
1.4447	5	1	1	28.421	0.1046	520.5	507.5	-13
1.327	4	4	0	31.002	0.1036	493	508.2	15.2
1.2689	5	3	1	32.461	0.1029	68.9	118.6	49.7
1.1869	6	2	0	34.771	0.1017	216	270.1	54.1
1.1448	5	3	3	36.095	0.101	209	240.9	31.9
1.1317	6	2	2	36.527	0.1008	87.5	88.5	1
1.0835	4	4	4	38.212	0.0998	4.6	7.8	3.2
1.0511	5	5	1	39.436	0.0991	17	8.6	-8.4
1.0511	7	1	1	39.436	0.0991	17	8.6	-8.4
1.0031	6	4	2	41.409	0.0978	213.4	207.2	-6.2
0.9773	5	5	3	42.556	0.097	104.5	107	2.5
0.9773	7	3	1	42.556	0.097	208.9	214.1	5.2
0.9383	8	0	0	44.414	0.0956	55.4	38.9	-16.5
0.9171	7	3	3	45.5	0.0948	9.6	0	-9.6
0.8847	6	6	0	47.267	0.0933	29.5	24.7	-4.8
0.8847	8	2	2	47.267	0.0933	59.1	49.4	-9.7
0.8668	5	5	5	48.303	0.0924	19.5	17.3	-2.2
0.8668	7	5	1	48.303	0.0924	116.7	103.8	-12.9
0.8611	6	6	2	48.644	0.0921	23.4	19.7	-3.7
0.8393	8	4	0	49.993	0.0908	4.9	0	-4.9
0.824	7	5	3	50.988	0.0898	11.3	2.8	-8.5
0.824	9	1	1	50.988	0.0898	5.6	1.4	-4.2
0.8002	6	6	4	52.615	0.0881	35.3	18.9	-16.4
0.7869	9	3	1	53.575	0.0871	69.3	71.1	1.8
0.7662	8	4	4	55.149	0.0853	77.7	73	-4.7
0.7545	7	5	5	56.078	0.0841	3.5	4.5	1
0.7545	7	7	1	56.078	0.0841	3.5	4.5	1
0.7545	9	3	3	56.078	0.0841	3.5	4.5	1
0.7361	8	6	2	57.606	0.0821	44.5	41.6	-2.9
0.7361	0	2	0	57.606	0.0821	22.3	20.8	-1.5
0.7257	7	7	3	58.51	0.0809	22.4	15	-7.4
0.7257	9	5	1	58.51	0.0809	44.7	30	-14.7
0.7223	6	6	6	58.81	0.0805	3	1.2	-1.8
0.7223	0	2	2	58.81	0.0805	9.1	3.6	-5.5

Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$
$R_p = 9.14$ $R_{wp} = 11.3$ $R_e = 5.75$ $\chi^2 = 3.83$
$a = 7.347576 \pm 0.001058$
$V = 396.673 \pm 0.099$
Udział procentowy fazy: 100%

Tabela 7: *Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.4}Fe_{0.6})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} [$\AA$]	h	k	l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.6527	2	2	0	15.366	0.1322	329.3	370.5	41.2
2.2622	3	1	1	18.039	0.1313	504.7	516.3	11.6
2.1659	2	2	2	18.848	0.131	73.6	110.8	37.2
1.8757	4	0	0	21.797	0.1298	3.5	0	-3.5
1.7213	3	3	1	23.78	0.1288	20.1	0	-20.1
1.5315	4	2	2	26.778	0.1272	125.3	145.7	20.4
1.444	3	3	3	28.436	0.1262	39.5	44.2	4.7
1.444	5	1	1	28.436	0.1262	118.6	132.7	14.1
1.3264	4	4	0	31.018	0.1244	112.7	118.3	5.6
1.2682	5	3	1	32.477	0.1234	14.6	17.9	3.3
1.1863	6	2	0	34.789	0.1215	48.4	57.2	8.8
1.1442	5	3	3	36.113	0.1204	47.9	45.1	-2.8
1.1311	6	2	2	36.545	0.12	20.9	17	-3.9
1.083	4	4	4	38.232	0.1184	0.9	1.3	0.4
1.0506	5	5	1	39.457	0.1172	3.6	0.2	-3.4
1.0506	7	1	1	39.457	0.1172	3.6	0.2	-3.4
1.0026	6	4	2	41.43	0.1151	47.5	55	7.5
0.9768	5	5	3	42.578	0.1137	23.9	24.1	0.2
0.9768	7	3	1	42.578	0.1137	47.7	48.2	0.5
0.9379	8	0	0	44.437	0.1115	12.8	13.7	0.9
0.9166	7	3	3	45.524	0.1101	1.9	0	-1.9
0.8842	6	6	0	47.292	0.1076	6.6	6.9	0.3
0.8842	8	2	2	47.292	0.1076	13.1	13.7	0.6
0.8664	5	5	5	48.328	0.1061	4.5	4	-0.5
0.8664	7	5	1	48.328	0.1061	26.7	24.1	-2.6
0.8607	6	6	2	48.67	0.1056	5.8	4.5	-1.3
0.8389	8	4	0	50.02	0.1034	0.9	0	-0.9
0.8236	7	5	3	51.015	0.1018	2.3	0.9	-1.4
0.8236	9	1	1	51.015	0.1018	1.1	0.4	-0.7
0.7998	6	6	4	52.644	0.0989	7.8	6.9	-0.9
0.7865	9	3	1	53.604	0.0971	16.2	15.2	-1
0.7658	8	4	4	55.178	0.0939	18.1	19.4	1.3
0.7541	7	5	5	56.109	0.0919	0.7	0.8	0.1
0.7541	7	7	1	56.109	0.0919	0.7	0.8	0.1
0.7541	9	3	3	56.109	0.0919	0.7	0.8	0.1
0.7357	8	6	2	57.637	0.0884	9.7	9.5	-0.2
0.7357	0	2	0	57.637	0.0884	4.8	4.8	0
0.7253	7	7	3	58.542	0.0861	5.1	4.5	-0.6
0.7253	9	5	1	58.542	0.0861	10.2	9	-1.2
0.722	6	6	6	58.842	0.0854	0.8	0.7	-0.1
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 8.43$ $R_{wp} = 10.8$ $R_e = 6.39$ $\chi^2 = 2.84$ $a = 7.333329 \pm 0.001249$ $V = 394.370 \pm 0.116$ Udział procentowy fazy: 100%								

Tabela 8: *Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.3}Fe_{0.7})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} $[\AA]$	h	k	l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.6372	2	2	0	15.457	0.1175	853.5	804.9	-48.6
2.249	3	1	1	18.146	0.1169	1307.6	1368.4	60.8
2.1532	2	2	2	18.96	0.1166	190.5	252.3	61.8
1.8648	4	0	0	21.927	0.1158	9.2	0	-9.2
1.7112	3	3	1	23.922	0.1151	52.8	0	-52.8
1.5226	4	2	2	26.939	0.114	330.8	322.7	-8.1
1.4355	3	3	3	28.607	0.1133	104.6	112.7	8.1
1.4355	5	1	1	28.607	0.1133	313.9	338	24.1
1.3186	4	4	0	31.205	0.1121	299.9	315.3	15.4
1.2608	5	3	1	32.674	0.1113	40	66.6	26.6
1.1794	6	2	0	35	0.11	132	145.2	13.2
1.1375	5	3	3	36.333	0.1093	129.8	140.9	11.1
1.1245	6	2	2	36.768	0.109	55.8	55.3	-0.5
1.0766	4	4	4	38.466	0.1079	2.6	1.6	-1
1.0445	5	5	1	39.699	0.1071	10.2	6.2	-4
1.0445	7	1	1	39.699	0.1071	10.2	6.2	-4
0.9968	6	4	2	41.685	0.1056	133	131.5	-1.5
0.9711	5	5	3	42.841	0.1047	66.6	65.6	-1
0.9711	7	3	1	42.841	0.1047	133.2	131.2	-2
0.9324	8	0	0	44.713	0.1032	35.7	31.4	-4.3
0.9113	7	3	3	45.807	0.1023	5.8	1.5	-4.3
0.8791	6	6	0	47.587	0.1006	19	17.7	-1.3
0.8791	8	2	2	47.587	0.1006	38	35.4	-2.6
0.8613	5	5	5	48.631	0.0996	12.7	12.4	-0.3
0.8613	7	5	1	48.631	0.0996	76.4	74.7	-1.7
0.8556	6	6	2	48.975	0.0992	16	14.3	-1.7
0.8339	8	4	0	50.335	0.0978	2.8	1.7	-1.1
0.8187	7	5	3	51.337	0.0967	7	4.5	-2.5
0.8187	9	1	1	51.337	0.0967	3.5	2.3	-1.2
0.7951	6	6	4	52.978	0.0948	23.1	27.2	4.1
0.7819	9	3	1	53.945	0.0937	47.7	48.6	0.9
0.7613	8	4	4	55.531	0.0916	53.3	53.8	0.5
0.7497	7	5	5	56.469	0.0903	2.2	3.8	1.6
0.7497	7	7	1	56.469	0.0903	2.2	3.8	1.6
0.7497	9	3	3	56.469	0.0903	2.2	3.8	1.6
0.7314	8	6	2	58.009	0.0881	29.8	30.2	0.4
0.7314	0	2	0	58.009	0.0881	14.9	15.1	0.2
0.7211	7	7	3	58.921	0.0867	15.3	13.7	-1.6
0.7211	9	5	1	58.921	0.0867	30.6	27.4	-3.2
0.7177	6	6	6	59.223	0.0862	2.2	1.9	-0.3
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 10.8$ $R_{wp} = 13.3$ $R_e = 6.41$ $\chi^2 = 4.33$ $a = 7.320241 \pm 0.000974$ $V = 392.262 \pm 0.090$ Udział procentowy fazy: 100%								

Tabela 9: *!!! UZUPEŁNIĆ !!! Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.2}Fe_{0.8})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} $[\AA]$	h k l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 10.8$ $R_{wp} = 13.3$ $R_e = 6.41$ $\chi^2 = 4.33$ $a = 7.320241 \pm 0.000974$ $V = 392.262 \pm 0.090$ Udział procentowy fazy: 100%						

Tabela 10: *Dane strukturalne związku międzymetalicznego* $Gd(Mn_{0.1}Fe_{0.9})_2$ $(300K)$ *wygrzewanego w* $1073K$ *przez 168 godzin w próżni*

d_{hkl} [$\AA$]	h	k	l	$2\Theta(^\circ)$	$\Gamma(^\circ)$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.6216	2	2	0	15.55	0.1318	837.6	781.9	-55.7
2.2357	3	1	1	18.255	0.1309	1303.1	1359.2	56.1
2.1405	2	2	2	19.074	0.1306	192.1	263.3	71.2
1.8537	4	0	0	22.059	0.1293	8.9	0	-8.9
1.7011	3	3	1	24.067	0.1284	52.2	0	-52.2
1.5136	4	2	2	27.103	0.1267	331.3	319.9	-11.4
1.427	3	3	3	28.781	0.1257	105.1	112.6	7.5
1.427	5	1	1	28.781	0.1257	315.4	337.9	22.5
1.3108	4	4	0	31.396	0.1239	302.4	334.9	32.5
1.2533	5	3	1	32.874	0.1228	40.5	64.8	24.3
1.1724	6	2	0	35.216	0.1209	133.1	153	19.9
1.1308	5	3	3	36.557	0.1198	131.3	144	12.7
1.1178	6	2	2	36.995	0.1194	56.5	56.7	0.2
1.0702	4	4	4	38.704	0.1178	2.7	0	-2.7
1.0383	5	5	1	39.945	0.1165	10.4	6.2	-4.2
1.0383	7	1	1	39.945	0.1165	10.4	6.2	-4.2
0.9909	6	4	2	41.945	0.1144	136	140.4	4.4
0.9653	5	5	3	43.109	0.113	67.7	68.6	0.9
0.9653	7	3	1	43.109	0.113	135.3	137.1	1.8
0.9269	8	0	0	44.994	0.1107	36.5	32.2	-4.3
0.9059	7	3	3	46.096	0.1092	6.1	0.4	-5.7
0.8739	6	6	0	47.888	0.1067	19.6	20.4	0.8
0.8739	8	2	2	47.888	0.1067	39.2	40.7	1.5
0.8562	5	5	5	48.94	0.1052	13.1	12.5	-0.6
0.8562	7	5	1	48.94	0.1052	78.5	75	-3.5
0.8505	6	6	2	49.287	0.1046	16.3	14.8	-1.5
0.829	8	4	0	50.656	0.1024	3.1	0	-3.1
0.8139	7	5	3	51.666	0.1007	7.5	6.3	-1.2
0.8139	9	1	1	51.666	0.1007	3.7	3.2	-0.5
0.7904	6	6	4	53.318	0.0978	24.1	29.3	5.2
0.7773	9	3	1	54.293	0.0959	49	46.4	-2.6
0.7568	8	4	4	55.891	0.0926	55.2	54	-1.2
0.7452	7	5	5	56.836	0.0905	2.4	3.7	1.3
0.7452	7	7	1	56.836	0.0905	2.4	3.7	1.3
0.7452	9	3	3	56.836	0.0905	2.4	3.7	1.3
0.7271	8	6	2	58.388	0.0868	31.7	29.3	-2.4
0.7271	0	2	0	58.388	0.0868	15.9	14.6	-1.3
0.7168	7	7	3	59.307	0.0845	15.9	12.6	-3.3
0.7168	9	5	1	59.307	0.0845	31.9	25.2	-6.7
0.7135	6	6	6	59.611	0.0837	2.2	1.5	-0.7
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 11.1$ $R_{wp} = 14.1$ $R_e = 6.50$ $\chi^2 = 4.68$ $a = 7.283864 \pm 0.000878$ $V = 386.443 \pm 0.081$ Udział procentowy fazy: 100%								