Landolt-Börnstein
Numerical Data and Functional Relationships in Science and Technology
New Series / Editor in Chief: W. Martienssen

Group III: Condensed Matter
Volume 41

Semiconductors

Supplement to Vols. III/17, 22 (Print Version)
Revised and Updated Edition of Vols. III/17, 22 (CD-ROM)

Editors: O. Madelung, U. Rössler, M. Schulz

Subvolume A2
Impurities and Defects in Group IV Elements, IV-IV and III-V Compounds

Part α: Group IV Elements

Supplement to Vol. III/ 22b (Print Version)
Revised and Updated Edition of Vol. III/22b (CD-ROM)

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4.2.6 Paramagnetic centers in silicon

In this section 4.2.6 the numbering of subsections and tables is according to Vol. III/22b.

((Figures, cited in this section, were already published in the respective chapter in Vol. III/22b. Therefore they will be presented here only by their captions in order to allow an overview of their content. For full information (figures plus figure captions) we refer also to the respective documents in the enclosed CD-ROM.))

For Sects. 4.2.6.1 and 4.2.6.2 (Tables 1...6) see Vol. III/22b or the respective document in the enclosed CD-ROM.

4.2.6.3 Electron paramagnetic resonance (EPR) data

The following tables list data for paramagnetic properties of centers in silicon. Labels as given in the reference literature are used to identify centers of unknown microscopic structure.

Table 7. Paramagnetic centers of triclinic symmetry, crystallographic pointgroups 1 (C_1) and $\bar{1}$ (S_2). The principal axes of the **g**-tensor are specified by unit vectors in the cubic axes system. Symbol □ used for single lattice vacancy. Spectra are arranged in order of increasing trace of their **g**-tensor. For the rotation pattern see Fig. 1.

Spectrum/model:	**PK2/hydrogen related, neutron irradiation**	
Spin:	$S = 1/2$	
g-tensor:	$g_1 = 2.0063$, ‖ (+0.739, –0.515, +0.435)	Tr = 6.0062
	$g_2 = 2.0028$, ‖ (+0.515, +0.847, +0.128)	
	$g_3 = 1.9971$, ‖ (–0.434, +0.129, +0.891)	
Remark:	similar to H8	
References:	86L1, 87W1	
Spectrum/model:	**H8/($\square_2Si_i$)$^+$, neutron irradiation**	
Spin:	$S = 1/2$	
g-tensor:	$g_1 = 2.0065$, ‖ (+0.749, –0.484, +0.452)	Tr = 6.0065
	$g_2 = 2.0028$, ‖ (+0.495, +0.863, +0.102)	
	$g_3 = 1.9972$, ‖ (–0.439, +0.147, +0.886)	
Remark:	similar to PK2	
References:	85D1, 86D1, 86D2, 89D1	
Spectrum/model:	**L10/(C_iP_s)^0 pair, electron irradiation**	
Spin:	$S = 1/2$	
g-tensor:	$g_1 = 2.0021$, ‖ (+0.500, –0.500, +0.717)	Tr = 6.0072
	$g_2 = 2.0001$, ‖ (+0.494, +0.836, +0.242)	
	$g_3 = 2.0050$, ‖ (+0.712, –0.228, –0.665)	
References:	91W2, 92Z1, 93Z1	
Spectrum/model:	**AA3/hydrogen implantation**	
Spin:	$S = 1/2$	
g-tensor:	$g_1 = 2.0014$, ‖ (+0.2988, –0.9398, +0.1658)	Tr = 6.0083
	$g_2 = 2.0029$, ‖ (–0.4742, +0.0046, +0.8804)	
	$g_3 = 2.0040$, ‖ (+0.8282, +0.3417, +0.4443)	
References:	83G3, 91G1, 02A1	

Spectrum/model: **H12/$[(Si_i)_3]^+$, neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0042$, || (+0.974, +0.014, +0.228) Tr = 6.0092
$g_2 = 2.0034$, || (–0.060, +0.978, +0.197)
$g_3 = 2.0016$, || (–0.220, –0.206, +0.953)
References: 88D1, 89D1

Spectrum/model: **PK1/multi-vacancy, neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0082$, || (+0.882, +0.393, +0.260) Tr = 6.0122
$g_2 = 2.0048$, || (–0.209, +0.821, –0.532)
$g_3 = 1.9992$, || (–0.423, +0.415, +0.806)
References: 87W1

Spectrum/model: **Ch/dislocation state**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9915$, || (+0.38, –0.9, –0.2) Tr = 6.0138
$g_2 = 2.0064$, || (+0.32, –0.06, +0.94)
$g_3 = 2.0159$, || (+0.87, +0.43, –0.25)
Remark: spectrum Ch also reported with orthorhombic symmetry
References: 84K2, 86K2, 89K4, 93K3, 93W2

Spectrum/model: **G10/$(B_sC)^0$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0011$, || (+0.425, +0.719, +0.550) Tr = 6.0153
$g_2 = 2.0052$, || (+0.133, –0.651, +0.748)
$g_3 = 2.0090$, || (+0.896, –0.244, –0.372)
References: 76W1, 77W2, 85A2, 85S1, 87S2

Spectrum/model: **AA14/oxygen related, irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.00237$, || (+0.9374, –0.0083, –0.3482) Tr = 6.01635
$g_2 = 2.00472$, || (+0.2083, –0.7878, +0.5796)
$g_3 = 2.00926$, || (+0.2792, +0.6158, +0.7368)
References: 95A1, 96A3, 96A4, 97M2, 98M4, 99M2

Spectrum/model: **K1 (D1, D2)/dislocation center**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0018$, || (+0.267, +0.802, –0.535) Tr = 6.0184
$g_2 = 2.0092$, || (+0.549, +0.329, +0.768)
$g_3 = 2.0074$, || (+0.792, –0.499, –0.352)
References: 65A1, 70G2, 70W1, 71G2, 74B2, 75A1, 79E1, 79W1, 80W3, 81G3, 81S1, 81W2, 82K3, 83A1, 83W3, 85K2, 85O1, 86Z1, 87Z1, 89S1, 90V1, 95O1, 00C1

Spectrum/model: **AA2/hydrogen implantation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0020$, || (+0.2917, +0.7814, +0.5517) Tr = 6.0189
$g_2 = 2.0073$, || (+0.7764, –0.5303, +0.3406)
$g_3 = 2.0096$, || (–0.5587, –0.3290, +0.7613)
References: 83G1, 83G4, 91G1, 02A1

Spectrum/model: **K8/dislocation related**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0032$, || (–0.362, –0.785, +0.503) Tr = 6.0216
$g_2 = 2.0092$, || (0.000, +0.540, +0.842)
$g_3 = 2.0092$, || (–0.932, +0.305, –0.195)
Remarks: similar to K1, axial around [–18, –39, +25]
References: 80W3, 81W2

Spectrum/model: **DK1/$(Sn\square_2)^-$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.00998$, $g_2 = 2.01258$, $g_3 = 2.00113$ Tr = 6.02369
Remark: symmetry at 8 K, triclinic to monoclinic-I transition at ≈ 15 K, different from spectrum DK1 of Ref. 96S1
References: 00F1

Spectrum/model: **DK4b/$(Sn\square)^-$**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.998$, $g_2 = 1.998$, $g_3 = 2.034$ Tr = 6.030
References: 99F1, 00F1

Spectrum/model: **$^3S_B/S_sCu_i$ B configuration**
Spin: $S = 1$
g-tensor: $g_1 = 2.008$, || (+0.814, +0.421, +0.400) Tr = 6.041
$g_2 = 2.018$, || (–0.168, –0.489, +0.865)
$g_3 = 2.015$, || (+0.557, –0.763, –0.327)
References: 94C2, 94C3, 98M3

Spectrum/model: **$^3S_A/S_sCu_i$ A configuration**
Spin: $S = 1$
g-tensor: $g_1 = 2.055$, || (+0.780, +0.353, +0.517) Tr = 6.092
$g_2 = 2.015$, || (–0.174, –0.671, +0.721)
$g_3 = 2.022$, || (+0.602, –0.652, –0.462)
References: 92C1, 94C1, 94C2, 94C3, 94J1, 98M3

Spectrum/model: **NL64/AuH_2 complex**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0650$, || (+0.3861, +0.6541, +0.6504) Tr = 6.2011
$g_2 = 2.1779$, || (+0.8374, –0.5443, +0.0503)
$g_3 = 1.9582$; || (+0.3869, +0.5252, –0.7579)
References: 01H1, 01H2, 02A1, 02H1, 02H2

Spectrum/model: **NL23/Fe_i center**
Spin: $S = 1/2$
g-tensor: $g_1 = 5.489$, || (+0.187, +0.860, –0.475) Tr = 10.066
$g_2 = 2.809$, || (+0.901, –0.342, –0.266)
$g_3 = 1.768$, || (+0.392, +0.378, +0.839)
References: 82M1, 89A2, 90A1

Table 8. Paramagnetic centers of monoclinic-I symmetry, crystallographic point groups 2 (C_2), m (C_v, C_{1h}) and 2/m (C_{2h}). The principal axes of the **g**-tensor are: axis g_1 || [0, $-(1/2)\sqrt{2}$, $+(1/2)\sqrt{2}$], axis g_2 || [$+\sin\theta$, $-(1/2)\sqrt{2}\cos\theta$, $-(1/2)\sqrt{2}\cos\theta$], axis g_3 || [$+\cos\theta$, $+(1/2)\sqrt{2}\sin\theta$, $+(1/2)\sqrt{2}\sin\theta$], with angle θ in degrees. Symbol □ used for single lattice vacancy. Spectra are arranged in order of increasing trace of their **g**-tensor. For the rotation pattern see Fig. 2.

Spectrum/model:	**Oxygen related 1Pt(A)**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.1653$	$g_2 = 2.6266$	$g_3 = 1.2455$	$\theta = 50$	Tr = 5.0374
References:	95H3, 96J1, 97J2, 97S2				
Spectrum/model:	**Pt-complex IV**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.7788$	$g_2 = 1.7108$	$g_3 = 1.9183$	$\theta = 10.4$	Tr = 5.4079
References:	89H1, 91H1, 91H2, 92G2				
Spectrum/model:	**Pt-complex III**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.8561$	$g_2 = 2.1136$	$g_3 = 1.7447$	$\theta = 24.2$	Tr = 5.7144
References:	89H1, 91H1, 91H2, 92G2				
Spectrum/model:	**Au(4)**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.732$	$g_2 = 2.243$	$g_3 = 1.805$	$\theta = 10$	Tr = 5.780
References:	83H2, 86H1, 87H1				
Spectrum/model:	**NL62/single Au center**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.8424$	$g_2 = 2.2435$	$g_3 = 1.7165$	$\theta = 15$	Tr = 5.8024
References:	01H2				
Spectrum/model:	**A27/Fe related**				
Spin:	$S = 3/2$				
g-tensor:	$g_1 = 2.39$	$g_2 = 1.62$	$g_3 = 1.96$	$\theta = 10$	Tr = 5.97
Remark:	for alternative analysis with $S = ½$, see p. 256				
References:	83C1				
Spectrum/model:	**G26/(Ge□)$^+$, electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9909$	$g_2 = 2.0084$	$g_3 = 1.9919$	$\theta = 86.4$	Tr = 5.9912
References:	69W1, 69W2, 75W1, 77W2				
Spectrum/model:	**OS1/oxygen related, heat treatment**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9979$	$g_2 = 1.9929$	$g_3 = 2.0010$	$\theta = 22$	Tr = 5.9918
References:	86W2				
Spectrum/model:	**2K/dislocation state**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9982$	$g_2 = 2.0014$	$g_3 = 1.9930$	$\theta = 67.5$	Tr = 5.9926
References:	88B3, 94M2, 95K1				

Spectrum/model:	**3K/dislocation state**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9994$	$g_2 = 2.0018$	$g_3 = 1.9920$	$\theta = 71.0$	Tr = 5.9932
References:	88B3, 94M2, 95K1				
Spectrum/model:	**NL3/P_2 center, electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0000$	$g_2 = 1.9949$	$g_3 = 1.9991$	$\theta = 23$	Tr = 5.9940
References:	77S1, 78S2				
Spectrum/model:	**SC1(1)/rodlike defects, heat treatment**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9958$	$g_2 = 1.9994$	$g_3 = 2.0017$	$\theta = 0$	Tr = 5.9969
References:	94M2				
Spectrum/model:	**SC1(2)/rodlike defects, heat treatment**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9958$	$g_2 = 1.9986$	$g_3 = 2.0026$	$\theta = 25$	Tr = 5.9970
References:	94M2				
Spectrum/model:	**A18/oxygen related, irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0023$	$g_2 = 1.9939$	$g_3 = 2.0008$	$\theta = 20$	Tr = 5.9970
References:	77L1, 95A1, 96A4, 97M1, 97M2, 98M4, 99M2				
Spectrum/model:	**AA10/H center**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0021$	$g_2 = 1.9943$	$g_3 = 2.0011$	$\theta = 16.6$	Tr = 5.9975
References:	87G3, 91G1, 02A1				
Spectrum/model:	**NL68/PdH**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.998$	$g_2 = 2.0361$	$g_3 = 1.9651$	$\theta = 22$	Tr = 5.999
References:	01H2, 02H1, 02H2				
Spectrum/model:	**K10/plastic deformation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9913$	$g_2 = 2.0095$	$g_3 = 1.9996$	$\theta = 9$	Tr = 6.0004
References:	93W2				
Spectrum/model:	**L9/$(C_iP_s)^0$ pair, electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0003$	$g_2 = 2.0021$	$g_3 = 2.0047$	$\theta = 22$	Tr = 6.0071
References:	91W2, 91Z1, 92Z1, 93Z1				
Spectrum/model:	**G17 (D center)/$(C_iC_s)^-$, irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0021$	$g_2 = 2.0001$	$g_3 = 2.0027$	$\theta = 16$	Tr = 6.0049
References:	65W1, 66C1, 71D2, 88S1, 90S3				

Spectrum/model: **G21/(Al+?), electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0020$ $g_2 = 2.0008$ $g_3 = 2.0031$ $\theta = 17$ Tr = 6.0059
References: 65W1, 66C1

Spectrum/model: **G6 (J center)/$(\square_2)^+$, irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0020$ $g_2 = 2.0004$ $g_3 = 2.0041$ $\theta = 27.6$ Tr = 6.0065
References: 61C1, 61W2, 62L1, 63J1, 65C1, 65W1, 65W2, 66C1, 71D1, 71D3, 72A1, 74A1, 75W4, 76A1, 76W3, 77W2, 85A2, 91V1

Spectrum/model: **K7/dislocation related**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0135$ $g_2 = 2.0000$ $g_3 = 1.9930$ $\theta = 22$ Tr = 6.0065
References: 81W1, 83W3, 85O1

Spectrum/model: **AA15/Al-Al interstitial pair, hydrogen implantation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0025$ $g_2 = 2.0008$ $g_3 = 2.0035$ $\theta = 70$ Tr = 6.0068
References: 97A3, 97G2, 97G4, 98G2, 99G3, 99M2, 01M1, 02A1

Spectrum/model: **Oxygen related 1Pt(B)**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.7072$ $g_2 = 2.4196$ $g_3 = 1.8804$ $\theta = 58$ Tr = 6.0072
References: 96J1

Spectrum/model: **A8/neutron irradiation, He implantation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0040$ $g_2 = 2.0035$ $g_3 = 2.0015$ $\theta = 20$ Tr = 6.0090
Remark: **g**-tensor temperature dependent, measured at $T = 300$ K
References: 72L1, 74L1, 85G1

Spectrum/model: **H13/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0003$ $g_2 = 2.0044$ $g_3 = 2.0049$ $\theta = 86.6$ Tr = 6.0096
References: 89D1

Spectrum/model: **A10/neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0042$ $g_2 = 2.0073$ $g_3 = 1.9983$ $\theta = 25$ Tr = 6.0098
References: 74L1, 76L4

Spectrum/model: **G11*/$(C_sSi_iC_s)^0$**
Spin: $S = 1$
g-tensor: $g_1 = 2.000$ $g_2 = 2.004$ $g_3 = 2.006$ $\theta = 35$ Tr = 6.010
References: 82L1, 83O1, 91W2, 92S1

Spectrum/model: **G28/$(B_i)^0$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0058$ $g_2 = 2.0019$ $g_3 = 2.0028$ $\theta = 65$ Tr = 6.0105
References: 75W2, 77W2, 80T1, 91W2

Spectrum/model: **H5/$\square_2$Al center, irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0036$ $g_2 = 2.0065$ $g_3 = 2.0005$ $\theta = 13$ Tr = 6.0106
References: 84D1, 84D2, 85D2, 86D2, 89D1

Spectrum/model: **G15 (K center)/$(C_iSi_sO_i)^+$ center, irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0062$ $g_2 = 1.9998$ $g_3 = 2.0052$ $\theta = 18.5$ Tr = 6.0112
References: 65W1, 66A1, 66C1, 71D2, 77L1, 80V1, 88K2, 88T1, 96W2

Spectrum/model: **A20/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0023$ $g_2 = 2.0084$ $g_3 = 2.0026$ $\theta = 20$ Tr = 6.0133
References: 76L3

Spectrum/model: **WL1/C_iC_s, electron irradiation**
Spin: $S = 1$
g-tensor: $g_1 = 2.004$ $g_2 = 2.010$ $g_3 = 2.000$ $\theta = 35.3$ Tr = 6.014
References: 97A1, 97A2

Spectrum/model: **DK3/$(Sn_2\square_2)^-$ (b)**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0076$ $g_2 = 2.0002$ $g_3 = 2.0063$ $\theta = 14$ Tr = 6.0141
Remark: different from spectrum DK3 of Ref. 96S1
References: 00F1

Spectrum/model: **A17/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0073$ $g_2 = 2.0020$ $g_3 = 2.0050$ $\theta = 15$ Tr = 6.0143
References: 77L1

Spectrum/model: **AA4/He implantation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0060$ $g_2 = 2.0025$ $g_3 = 2.0066$ $\theta = 31.5$ Tr = 6.0151
References: 85G1

Spectrum/model: **P_{b1}/(100)Si-SiO_2 interface**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.00577$ $g_2 = 2.00735$ $g_3 = 2.0022$ $\theta = 32$ Tr = 6.0153
References: 81P1, 87B3, 87P1, 91S5, 94S2, 95S3, 96C2, 96S7, 96S13, 97S4, 98S4, 98S5, 98S6, 98S8, 98S10, 98S12, 99S4, 99Y1, 00K1

Spectrum/model: **A6/neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0028$ $g_2 = 2.0081$ $g_3 = 2.0046$ $\theta = 20$ Tr = 6.0155
References: 72L1, 94V1

Spectrum/model: **NL11/electron irradiation**
Spin: $S = 1$
g-tensor: $g_1 = 2.00945$ $g_2 = 2.0083$ $g_3 = 1.9991$ $\theta = 33.2$ Tr = 6.0169
References: 78S2, 82S2

Spectrum/model: **G24/$(Sb_s\square)^0$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0163$ $g_2 = 1.9958$ $g_3 = 2.0058$ $\theta = 53.6$ Tr = 6.0179
References: 68E1, 74L2

Spectrum/model: **$(\square OH)^0$**
Spin: S = 1/2
g-tensor: $g_1 = 2.0086$ $g_2 = 2.0084$ $g_3 = 2.0013$ $\theta = 39.2$ Tr = 6.0183
Remark: configuration at temperatures below 180 K, motionally averaged state of orthorhombic-I symmetry observed above 240 K
References: 99J1, 00J1, 02A1

Spectrum/model: **G23/$(As_s\square)^0$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0117$ $g_2 = 1.9991$ $g_3 = 2.0081$ $\theta = 38.0$ Tr = 6.0189
References: 68E1

Spectrum/model: **G13/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0037$ $g_2 = 2.0066$ $g_3 = 2.0086$ $\theta = 29$ Tr = 6.0189
References: 65W1, 66C1

Spectrum/model: **P4 (V,VI center)/$(O\square_3)^0$, irradiation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0082$ $g_2 = 2.0036$ $g_3 = 2.0066$ $\theta = -2.9$ Tr = 6.0184 Ref. 76L1
$g_1 = 2.0090$ $g_2 = 2.0043$ $g_3 = 2.0071$ $\theta = -3.5$ Tr = 6.0204 Ref. 63J1
References: 63J1, 65W1, 66C1, 71B1, 73B1, 76L1, 76L4, 77L1

Spectrum/model: **SL2/ion implantation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.00807$ $g_2 = 2.01036$ $g_3 = 2.00127$ $\theta = 57.53$ Tr = 6.01970
Remark: designated S2 in earlier publications
References: 72B1

Spectrum/model: **NL12/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0103$ $g_2 = 2.0007$ $g_3 = 2.0088$ $\theta = 57.5$ Tr = 6.0198
References: 78S2

Spectrum/model: **G5/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0100$ $g_2 = 2.0007$ $g_3 = 2.0096$ $\theta = 30$ Tr = 6.0203
References: 65W1, 66C1, 69D1

Spectrum/model: **$S1_b/(\square_3 H)^0$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0094$ $g_2 = 2.0009$ $g_3 = 2.0100$ $\theta = 33.2$ Tr = 6.0203
References: 98S1, 02A1

Spectrum/model: **I1, A14/$\square_2$ center, $(O\square_2)^0$, electron irradiation**

Spin:	$S = 1$					
g-tensor:	$g_1 = 2.0088$	$g_2 = 2.0022$	$g_3 = 2.0087$	$\theta = 27.7$	Tr = 6.0197	Ref. 76L1
	$g_1 = 2.0090$	$g_2 = 2.0020$	$g_3 = 2.0093$	$\theta = 33.1$	Tr = 6.0203	Ref. 82S2
	$g_1 = 2.0094$	$g_2 = 2.0020$	$g_3 = 2.0101$	$\theta = 32.9$	Tr = 6.0215	Ref. 79B1
References:	75B1, 76B2, 76L1, 76L4, 77L1, 79B1, 82S2, 85G3, 91V1, 00R1					

Spectrum/model: **P2 (I,I' center)/$O\square_2$, $(O_2\square_2)^0$, irradiation**

Spin:	$S = 1$					
g-tensor:	$g_1 = 2.0088$	$g_2 = 2.0019$	$g_3 = 2.0099$	$\theta = 32.0$	Tr = 6.0206	Ref. 76L1
	$g_1 = 2.0091$	$g_2 = 2.0023$	$g_3 = 2.0099$	$\theta = 37.2$	Tr = 6.0213	Ref. 63J1
References:	63J1, 65W1, 66C1, 71B1, 76B3, 76L1, 76L4, 77L1					

Spectrum/model: **$(\square H)^0$**

Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0114$	$g_2 = 2.0006$	$g_3 = 2.0090$	$\theta = 32.4$	Tr = 6.0210
References:	96S1, 97B1, 97J1, 98S1, 99G3, 02A1				

Spectrum/model: **P3 (II,III center)/$(\square_4)^0$, irradiation, ion implantation**

Spin:	$S = 1$				
g-tensor:	$g_1 = 2.0099$	$g_2 = 2.0010$	$g_3 = 2.0102$	$\theta = 34.4$	Tr = 6.0211
References:	63J1, 65W1, 66C1, 67L1, 67L2, 69B2, 69D1, 71B1, 71D2, 72B1, 72L1, 73B1, 73B2, 74G1, 74L2, 75K1, 75T1, 76G1, 76L2, 77M1, 79K1, 85D1, 85D2, 85G1, 85G2, 89S1, 89Y1, 92S7, 93S6, 95S7, 96V1, 98D2, 98L3, 98Z1				

Spectrum/model: **H10/$\square_4$-impurity center, neutron irradiation**

Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0100$	$g_2 = 2.0009$	$g_3 = 2.0103$	$\theta = 33.2$	Tr = 6.0212
References:	85D2, 89D1				

Spectrum/model: **G8 (E center)/$(P_s\square)^0$, irradiation**

Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0112$	$g_2 = 2.0005$	$g_3 = 2.0096$	$\theta = 32.3$	Tr = 6.0213
References:	59W2, 61W2, 62L1, 64W1, 65W1, 66C1, 68E1, 69D1, 71D1, 71D2, 72L1, 74L2, 75W1				

Spectrum/model: **$S1_a/(\square_2 H)^0$**

Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0100$	$g_2 = 2.0008$	$g_3 = 2.0110$	$\theta = 31.0$	Tr = 6.0218
References:	98S1, 02A1				

Spectrum/model: **G16 (B center)/$\square$C center, electron irradiation**

Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0085$	$g_2 = 2.0026$	$g_3 = 2.0107$	$\theta = 34.0$	Tr = 6.0218
References:	61W2, 62L1, 63J1, 65W1, 66C1, 69D1, 76L4, 79B1, 87D1, 89D1				

Spectrum/model: **S1/ion implantation**

Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0102$	$g_2 = 2.0011$	$g_3 = 2.0109$	$\theta = 31.5$	Tr = 6.0222
References:	85D2, 96S1, 97B1, 97J1, 98S1				

Spectrum/model: **DK2/(Sn□$_2$Sn)$^-$ (a)**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.00095$ $g_2 = 2.00744$ $g_3 = 2.01404$ $\theta = 46.6$ Tr = 6.02243
References: 00F1

Spectrum/model: **DK1/(Sn□$_2$)$^-$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.00290$ $g_2 = 2.01255$ $g_3 = 2.00812$ $\theta = 19.9$ Tr = 6.02357
Remark: symmetry at 70 K, monoclinic to triclinic transition at ≈ 15 K, different from spectrum DK1 of Ref. 96S1
References: 00F1

Spectrum/model: **K3/plastic deformation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0111$ $g_2 = 2.0022$ $g_3 = 2.0105$ $\theta = 31.5$ Tr = 6.0238
Remark: similarity with P1
References: 76W2, 77W1, 79W1, 80W3, 82K3, 83W3, 85K2, 85O1

Spectrum/model: **PT5/(□$_2$)*, electron irradiation**
Spin: $S = 1$
g-tensor: $g_{<111>} = 2.008$ $3g_{<111>} = 6.024$
Remark: incomplete data for angular dependence
References: 91V1

Spectrum/model: **P1 (N center, KX)/(□$_5$)$^-$, irradiation, ion implantation, plastic deformation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0117$ $g_2 = 2.0020$ $g_3 = 2.0104$ $\theta = 32.8$ Tr = 6.0241 Ref. 62N1
$g_1 = 2.0125$ $g_2 = 2.0046$ $g_3 = 2.0089$ $\theta = 17.3$ Tr = 6.0260 Ref. 63J1
$g_1 = 2.0127$ $g_2 = 2.0050$ $g_3 = 2.0091$ $\theta = 15$ Tr = 6.0268 Ref. 73L1
Remark: g-tensor temperature dependent in range 77-350 K, measured at 77 K (Ref. 62N1), at 300 K (Ref. 63J1) and at 320 K (Ref. 73L1)
References: 55S1, 62N1, 63J1, 65W1, 66C1, 67L1, 67L2, 69B2, 69D1, 71B1, 72L1, 73B1, 73B2, 73L1, 74L2, 77W1, 85G1, 85G3, 87B1, 93S6, 94V1, 98L3

Spectrum/model: **DK4a/(Sn□)$^-$**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9927$ $g_2 = 1.9982$ $g_3 = 2.0335$ $\theta = 59$ Tr = 6.0244
References: 99F1, 00F1

Spectrum/model: **K4/plastic deformation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0139$ $g_2 = 2.0000$ $g_3 = 2.0110$ $\theta = 7.0$ Tr = 6.0249
References: 76W2, 77W1, 79W1, 80W3, 82K3, 83W3, 85K2, 85O1

Spectrum/model: **O1/ion implantation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0130$ $g_2 = \sim 2.001$ $g_3 = 2.0115$ $\theta = \sim 35$ Tr = 6.0255
References: 73M1, 75M1, 77M1

Spectrum/model:	**G14/electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0109$	$g_2 = 2.0019$	$g_3 = 2.0135$	$\theta = 36.7$	Tr = 6.0263
References:	65W1, 66C1				
Spectrum/model:	**AA11/hydrogen implantation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0125$	$g_2 = 2.0035$	$g_3 = 2.0115$	$\theta = 37.0$	Tr = 6.0275
References:	91G1, 02A1				
Spectrum/model:	**G27/(Ge□)$^-$, electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0211$	$g_2 = 2.0030$	$g_3 = 2.0035$	$\theta = 35$	Tr = 6.0276
References:	69W1, 69W2, 75W1, 77W2				
Spectrum/model:	**H9/□$_2$ type, neutron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0127$	$g_2 = 2.0013$	$g_3 = 2.0144$	$\theta = 29.6$	Tr = 6.0284
References:	85D2, 86D2, 89D1, 89K1, 89K5				
Spectrum/model:	**G7 (C center)/(□$_2$)$^-$, irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0135$	$g_2 = 2.0012$	$g_3 = 2.0150$	$\theta = 29$	Tr = 6.0297
References:	61C1, 61W2, 62L1, 63B2, 63J1, 65C1, 65W1, 65W2, 66C1, 71D1, 71D3, 71W1, 72B1, 74L1, 75W1, 76G1, 76L4, 77W2, 78L1, 78S1, 79B1, 79L2, 85A2, 85D2, 85H1, 88K2, 89K1, 89K5, 91V1, 95S10, 00F1				
Spectrum/model:	**G11/($C_sSi_iC_s$)$^+$, irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.01269$	$g_2 = 2.00763$	$g_3 = 2.01795$	$\theta = 8.1$	Tr = 6.03827
References:	65W1, 66C1, 71D2, 74B1, 76W4, 77W2, 78B1, 82L1, 83O1, 88S1, 91W2, 92S1				
Spectrum/model:	**PT4/electron irradiation**				
Spin:	$S = 1$				
g-tensor:	$g_1 = 2.012$	$g_2 = 2.005$	$g_3 = 2.027$	$\theta = 34$	Tr = 6.044
References:	90V2, 91V1, 92V1, 95V1				
Spectrum/model:	**NL37/Zn related**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0164$	$g_2 = 2.0507$	$g_3 = 1.9981$	$\theta = 43.4$	Tr = 6.0652
References:	90A3, 91A1, 92A5, 93A1				
Spectrum/model:	**NL34/Zn_sCu_i**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9980$	$g_2 = 2.0872$	$g_3 = 1.9912$	$\theta = 32.2$	Tr = 6.0764
References:	90A2, 90A3, 91A1, 92A5, 93A1, 94B6				
Spectrum/model:	**NL48/ZnNi**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0109$	$g_2 = 2.0400$	$g_3 = 2.0286$	$\theta = 18.1$	Tr = 6.0795
References:	93A1				

Spectrum/model:	**$(Ni_i)^+$**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0357$	$g_2 = 2.0133$	$g_3 = 2.0333$	$\theta = 35.3$	Tr = 6.0823
Remark:	measured below $T = 2$ K				
References:	62L1				
Spectrum/model:	**L4/heat treatment**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.037$	$g_2 = 1.960$	$g_3 = 2.100$	$\theta = 37$	Tr = 6.097
References:	85W3				
Spectrum/model:	**A24/Fe_iFe_s, quenching**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0171$	$g_2 = 1.9775$	$g_3 = 2.1302$	$\theta = 32$	Tr = 6.1248
References:	79L1				
Spectrum/model:	**NL21/$[(Fe_i)_2\square_2]^{+/-}$, electron irradiation**				
Spin:	$S = 5/2$				
g-tensor:	$g_1 = 2.006$	$g_2 = 2.030$	$g_3 = 2.100$	$\theta = 33.8$	Tr = 6.136
Remark:	for alternative analysis with $S = ½$, see p. 257				
References:	82M1				
Spectrum/model:	**NL39/Zn_sCu_i**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0225$	$g_2 = 2.1252$	$g_3 = 1.9956$	$\theta = 36.1$	Tr = 6.1433
References:	90A2, 92A5, 93A1				
Spectrum/model:	**FeS(I)/Fe_iS_s**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.126$	$g_2 = 2.046$	$g_3 = 2.010$	$\theta = 15$	Tr = 6.182
References:	65L1, 83S3, 89A2				
Spectrum/model:	**NL66/Pt,Fe center**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9475$	$g_2 = 2.1989$	$g_3 = 2.05$	$\theta = 25$	Tr = 6.20
References:	01H2				
Spectrum/model:	**NL63/Au,H center**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9138$	$g_2 = 2.2942$	$g_3 = 2.0387$	$\theta = 21$	Tr = 6.2467
References:	01H1, 01H2				
Spectrum/model:	**A28/Fe related**				
Spin:	$S = 3/2$				
g-tensor:	$g_1 = 2.10$	$g_2 = 2.05$	$g_3 = 2.15$	$\theta = 15$	Tr = 6.30
Remark:	for alternative analysis with $S = ½$, see p. 256				
References:	83C1				

Spectrum/model:	**A25/Fe related**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.093$	$g_2 = 2.067$	$g_3 = 2.153$	$\theta = 15$	Tr = 6.313
References:	83C1, 89A2				
Spectrum/model:	**A26/Fe related**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.131$	$g_2 = 2.056$	$g_3 = 2.138$	$\theta = 35$	Tr = 6.325
References:	83C1, 89A2				
Spectrum/model:	**FeS(III)/Fe_iS_s**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.042$	$g_2 = 2.503$	$g_3 = 1.991$	$\theta = 46$	Tr = 6.536
References:	65L1, 83S3, 89A2				
Spectrum/model:	**FeS(IV)/Fe_iS_s**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9564$	$g_2 = 2.6910$	$g_3 = 1.9390$	$\theta = 28.7$	Tr = 6.5864
References:	83S3, 89A2				
Spectrum/model:	**FeS(II)/Fe_iS_s**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.015$	$g_2 = 2.962$	$g_3 = 1.938$	$\theta = 28.5$	Tr = 6.915
References:	65L1, 83S3, 89A2				
Spectrum/model:	**OEr-2/Er^{3+}, O co-implantation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 3.46$	$g_2 = 3.22$	$g_3 = 0.45$	$\theta = 55.9$	Tr = 7.13
References:	99C1, 99C3				
Spectrum/model:	**A27/Fe related**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 4.78$	$g_2 = 3.24$	$g_3 = 1.96$	$\theta = 10$	Tr = 9.98
Remark:	for alternative analysis with $S = 3/2$, see p. 247				
References:	83C1, 85A1, 88A2, 89A2, 90A1				
Spectrum/model:	**A28/Fe related**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 4.20$	$g_2 = 4.10$	$g_3 = 2.15$	$\theta = 15$	Tr = 10.45
Remark:	for alternative analysis with $S = 3/2$, see p. 255				
References:	83C1, 85A1, 88A2, 89A2, 90A1				
Spectrum/model:	**$(Fe_i)_2B$**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.96$	$g_2 = 5.46$	$g_3 = 3.05$	$\theta = 36.7$	Tr = 11.47
References:	89A2, 89G2, 89G4, 90A1				
Spectrum/model:	**$(Fe_i)_2$**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 3.50$	$g_2 = 5.07$	$g_3 = 3.90$	$\theta = 36.7$	Tr = 12.47
References:	89A2, 89G2, 89G4, 90A1				

Spectrum/model:	**NL24/$(Fe_i)_2$, irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.15$	$g_2 = 9.44$	$g_3 = 2.06$	$\theta = 36.4$	Tr = 12.65
References:	82M1, 87K2, 89A2, 89G2, 89G4, 90A1, 97E1				
Spectrum/model:	**NL41/$(Fe_i)_2$Al**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.404$	$g_2 = 2.661$	$g_3 = 9.027$	$\theta = 64.6$	Tr = 13.092
Remark:	alternative analysis with $S = 5/2$ and $g \approx 2.066$				
References:	92E1				
Spectrum/model:	**NL40/$(Fe_i)_2$Al**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.470$	$g_2 = 2.836$	$g_3 = 8.907$	$\theta = 36.6$	Tr = 13.213
Remark:	alternative analysis with $S = 5/2$ and $g_1 = 2.023$, $g_2 = 2.081$ and $g_3 = 2.083$				
References:	92E1, 94I1				
Spectrum/model:	**NL33/$(Fe_i)_2$B center**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.472$	$g_2 = 8.899$	$g_3 = 2.895$	$\theta = 37.3$	Tr = 13.266
References:	89A2, 89G2, 89G4, 90A1, 90E1, 97E1				
Spectrum/model:	**NL21/$[(Fe_i)_2\square_2]^{+/-}$, electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 4.90$	$g_2 = 1.961$	$g_3 = 7.38$	$\theta = 33.8$	Tr = 14.241
Remark:	for alternative analysis with $S = 5/2$, see p. 255				
References:	82M1, 89A2, 90A1				
Spectrum/model:	**OEr-1'/Er^{3+}, O co-implantation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 5.45$	$g_2 = 12.55$	$g_3 = 0.80$	$\theta = 56.9$	Tr = 18.80
References:	99C1, 99C2, 99C3				
Spectrum/model:	**OEr-1/Er^{3+}, O co-implantation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 5.45$	$g_2 = 12.60$	$g_3 = 0.80$	$\theta = 57.3$	Tr = 18.85
References:	95P1, 96C1, 99C1, 99C3				
Spectrum/model:	**OEr-3/Er^{3+}, O co-implantation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 5.05$	$g_2 = 12.78$	$g_3 = 1.09$	$\theta = 48.3$	Tr = 18.92
References:	99C1, 99C2, 99C3				
Spectrum/model:	**FEr-1/Er^{3+}, F co-implantation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 9.65$	$g_2 = 7.91$	$g_3 = 1.36$	$\theta = 79.1$	Tr = 18.92
References:	99C1, 99C3				

Table 9. Paramagnetic centers of monoclinic-II symmetry, crystallographic pointgroup 2 (C_2). The principal axes of the **g**-tensor are: axis g_1 || [1, 0, 0], axis g_2 || [0, +cosθ, +sinθ], axis g_3 || [0, −sinθ, +cosθ], with angle θ in degrees. Spectra are arranged in order of increasing trace of their **g**-tensor. For the rotation pattern see Fig. 3.

Spectrum/model:	**PK4/intrinsic interstitial defect, particle irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0017$	$g_2 = 1.9957$	$g_3 = 2.0032$	$\theta = 31.2$	Tr = 6.0006
References:	86W1, 96T1				
Spectrum/model:	**P6 (IX center)/$[(Si_i)_2]^+$, neutron irradiation, ion implantation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0040$	$g_2 = 2.0062$	$g_3 = 2.0010$	$\theta = 17$	Tr = 6.0112
Remark:	measured at $T = 200$ K, symmetry and g-values temperature dependent				
References:	74L3, 76B5, 76L2, 79K1, 85D1, 88D1, 92S7, 95J1, 96V1, 98L2				

Table 10. Paramagnetic centers of orthorhombic-I symmetry, crystallographic pointgroup 2mm (C_{2v}). The principal axes of the **g**-tensor are: axis g_1 || [1, 0, 0], axis g_2 || [0, 1, 1], axis g_3 || [0, $\bar{1}$, 1]. Symbol □ used for single lattice vacancy. Spectra are arranged in order of increasing trace of their **g**-tensor. For the rotation pattern see Fig. 4.

Spectrum/model:	**KC1/dislocation state**			
Spin:	$S = 1/2$			
g-tensor:	$g_1 = 2.19$	$g_2 = 1.27$	$g_3 = 1.10$	Tr = 4.56
References:	92K1, 93K1, 93K3, 95K2, 95K4, 96G1, 96K1, 97K2			
Spectrum/model:	**Pt(I)/$(Pt_s)^-$**			
Spin:	$S = 1/2$			
g-tensor:	$g_1 = 2.0789$	$g_2 = 1.3867$	$g_3 = 1.4266$	Tr = 4.8922
References:	62L1, 62W1, 83H1, 83H3, 83W2, 84M1, 87O1, 88B1, 89O1, 90V3, 92A1, 92A2, 92W1, 95G3, 95W2			
Spectrum/model:	**Pt_2(IV)**			
Spin:	$S = 1/2$			
g-tensor:	$g_1 = 1.8152$	$g_2 = 1.8439$	$g_3 = 1.5373$	Tr = 5.1964
References:	96J2			
Spectrum/model:	**Pt_2(I)**			
Spin:	$S = 1/2$			
g-tensor:	$g_1 = 1.6317$	$g_2 = 1.5181$	$g_3 = 2.1869$	Tr = 5.3367
References:	88B1, 90A1, 96J2			
Spectrum/model:	**$(Au_sLi_i)^+$**			
Spin:	$S = 1/2$			
g-tensor:	$g_1 = 1.629$	$g_2 = 2.456$	$g_3 = 1.548$	Tr = 5.633
References:	94A1, 95A3, 95G3, 95W1			
Spectrum/model:	**$(Pt_sLi_i)^0$**			
Spin:	$S = 1/2$			
g-tensor:	$g_1 = 1.769$	$g_2 = 2.250$	$g_3 = 1.746$	Tr = 5.765
References:	94A1, 95A3, 95G3, 95W1			

Spectrum/model: **NL30/heat treatment**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9300$ $g_2 = 1.9471$ $g_3 = 2.0125$ Tr = 5.8896
References: 86W4

Spectrum/model: **$(Pd_S)^-$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0544$ $g_2 = 1.9190$ $g_3 = 1.9715$ Tr = 5.9449
References: 62L1, 62W1, 83W2, 89O1, 90V3, 92W1, 95W2

Spectrum/model: **KEM-2/Fe,O related**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9928$ $g_2 = 1.9926$ $g_3 = 1.9962$ Tr = 5.9816
References: 98M2

Spectrum/model: **NL36/Zn_SCr_i**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9856$ $g_2 = 1.9903$ $g_3 = 2.0119$ Tr = 5.9878
References: 90A2, 90A3, 91A1, 92A5, 93A1, 93B1

Spectrum/model: **4K/dislocation state**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9962$ $g_2 = 2.0002$ $g_3 = 1.9920$ Tr = 5.9884
References: 88B3, 94M2, 95K1

Spectrum/model: **NL56/$(Ag_S)^0$**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9954$ $g_2 = 1.9960$ $g_3 = 1.9980$ Tr = 5.9894
References: 97H2, 97H3

Spectrum/model: **NL16/heat treatment**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9995$ $g_2 = 1.9949$ $g_3 = 1.9995$ Tr = 5.9939
References: 78M1

Spectrum/model: **NL8/TDD^+, heat treatment, oxygen related**
Spin: $S = 1/2$

g-tensor:					
	$g_1 = 1.99991$	$g_2 = 1.99323$	$g_3 = 2.00091$	Tr = 5.99405	
	$g_1 = 1.99980$	$g_2 = 1.99285$	$g_3 = 2.00084$	Tr = 5.99349	species 1
	$g_1 = 1.99980$	$g_2 = 1.99317$	$g_3 = 2.00084$	Tr = 5.99381	species 2
	$g_1 = 1.99980$	$g_2 = 1.99346$	$g_3 = 2.00084$	Tr = 5.99410	species 3
	$g_1 = 1.99980$	$g_2 = 1.99376$	$g_3 = 2.00084$	Tr = 5.99440	species 4
	$g_1 = 1.9999$	$g_2 = 1.9928$	$g_3 = 2.0009$	Tr = 5.9936	TDD2 [99M1]

Remarks: superposition of several component spectra, overall **g**-tensor dependent on heat-treatment time
References: 78M1, 79M1, 84B1, 85L1, 86M1, 86W2, 86W3, 87G1, 88A1, 88M1, 89G1, 89G3, 89G6, 89M2, 89M3, 89M4, 89M5, 90G1, 92B1, 93B2, 94B2, 94G2, 94M1, 94M4, 95G1, 95G2, 95S5, 96A1, 96B1, 96M1, 96S5, 96S6, 96W2, 96Z1, 97D1, 97T2, 98D1, 98G1, 98R1, 98S3, 99G3, 99M1, 00M2, 00T1

Spectrum/model: **NL2/P_2Si_i, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9978$ $g_2 = 1.9992$ $g_3 = 1.9974$ Tr = 5.9944
References: 77S1, 78S2

Spectrum/model: **DD/oxygen related, heat treatment**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9983$ $g_2 = 1.9984$ $g_3 = 1.9984$ Tr = 5.9951
References: 83S4

Spectrum/model: **ND/oxygen related, heat treatment**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9983$ $g_2 = 1.9985$ $g_3 = 1.9984$ Tr = 5.9952
References: 83S4, 86W2

Spectrum/model: **NL9, heat treatment**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.99917$ $g_2 = 1.99758$ $g_3 = 1.99847$ Tr = 5.99522
References: 78M1, 79M1, 84B1, 86W3, 87G1, 96B1

Spectrum/model: **TD/oxygen related, heat treatment**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.9983$ $g_2 = 1.9985$ $g_3 = 1.9989$ Tr = 5.9957
References: 83S4, 87B2

Spectrum/model: **AA1/H related shallow donor, hydrogen implantation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0002$ $g_2 = 1.9954$ $g_3 = 2.0002$ Tr = 5.9958
References: 83G4, 83N2, 91G1, 98G1, 98R1, 99G1, 99G3, 99T1, 00T1, 01M1, 02A1

Spectrum/model: **NL10 (NL13, NL17)/TDD(H, Al), heat treatment**
Spin: $S = 1/2$
g-tensor:

$g_1 = 1.99959$	$g_2 = 1.99747$	$g_3 = 1.99957$	Tr = 5.99663	stage NL10
$g_1 = 1.99974$	$g_2 = 1.99770$	$g_3 = 1.99949$	Tr = 5.99693	stage NL13
$g_1 = 1.99982$	$g_2 = 1.99799$	$g_3 = 1.99946$	Tr = 5.99727	stage NL17
$g_1 = 1.99978$	$g_2 = 1.99765$	$g_3 = 1.99941$	Tr = 5.99684	species 1
$g_1 = 1.99978$	$g_2 = 1.99779$	$g_3 = 1.99941$	Tr = 5.99698	species 2
$g_1 = 1.99978$	$g_2 = 1.99793$	$g_3 = 1.99941$	Tr = 5.99712	species 3
$g_1 = 1.99978$	$g_2 = 1.99797$	$g_3 = 1.99941$	Tr = 5.99716	species 4
$g_1 = 1.99978$	$g_2 = 1.99813$	$g_3 = 1.99941$	Tr = 5.99732	species 5

Remarks: superposition of several component spectra, overall **g**-tensor dependent on heat-treatment time, spectra with original labels NL13 and NL17 correspond to later annealing stages of NL10, **g**-tensors given in orthorhombic approximation, actual symmetry may be lower
References: 78M1, 79M1, 86W3, 87B2, 87G1, 87G6, 88A1, 88B2, 88G2, 89A1, 89B1, 89B3, 89G1, 89G3, 89G6, 89M2, 89M3, 89M4, 89M5, 90G1, 90H1, 90M2, 91H4, 92A4, 92G1, 92G3, 92G4, 93G3, 93H2, 94H4, 94M1, 94M3, 94M4, 95A2, 95G2, 95M1, 95M2, 96A1, 96M1, 96N1, 96S5, 96S6, 96Z1, 97N1, 97P2, 98M1, 98M2, 99G3, 01L1, 01R1, 02A1

Spectrum/model:	**D(N,O)$_i$/O$_i$N center, heat treatment**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.9996$	$g_2 = 1.9978$	$g_3 = 1.9994$	Tr = 5.9968	Ref. 94H4
	$g_1 = 1.99989$	$g_2 = 1.99798$	$g_3 = 1.99952$	Tr = 5.99739	Ref. 90H1
	$g_1 = 2.0001$	$g_2 = 1.9980$	$g_3 = 1.9994$	Tr = 5.9975	Ref. 89H2
References:	89H2, 90H1, 91H4, 93H2, 94H4				
Spectrum/model:	**NL14, heat treatment**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.99966$	$g_2 = 1.99880$	$g_3 = 1.99919$	Tr = 5.99765	
References:	78M1				
Spectrum/model:	**U**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 1.997$	$g_2 = 2.001$	$g_3 = 2.002$	Tr = 6.000	
Remark:	provisional analysis				
References:	65L1				
Spectrum/model:	**L6/$(C_i)^-$**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0029$	$g_2 = 1.9995$	$g_3 = 2.0020$	Tr = 6.0044	
References:	90S2, 90S3, 91Z1, 93Z1				
Spectrum/model:	**NL7/electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0032$	$g_2 = 2.0059$	$g_3 = 1.9987$	Tr = 6.0078	
References:	77S1, 78S2				
Spectrum/model:	**L12/$(C_iSb_s)^0$ pair, electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0039$	$g_2 = 1.9990$	$g_3 = 2.0052$	Tr = 6.0081	
References:	93Z1				
Spectrum/model:	**GGA1, electron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0039$	$g_2 = 2.0002$	$g_3 = 2.0043$	Tr = 6.0084	
References:	67W1, 69H1				
Spectrum/model:	**Ch (Ch-2, Ch-3, Ch-F)/dislocation state**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0009$	$g_2 = 1.9945$	$g_3 = 2.014$	Tr = 6.009	
Remark:	spectrum Ch also reported with triclinic symmetry				
References:	84K2, 86K2, 87K3, 87K7, 90K1, 90K2, 93K3, 93W2				
Spectrum/model:	**HVH/$(H_2\square)^0$, $[(O\square)^0]$***				
Spin:	$S = 1$				
g-tensor:	$g_1 = 2.002$	$g_2 = 2.005$	$g_3 = 2.002$	Tr = 6.009	
References:	90C1, 97S7, 98C1, 98S9, 02A1				

Spectrum/model: **L8/$(C_iP_s)^0$ pair, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0041$ $g_2 = 2.0003$ $g_3 = 2.0047$ Tr = 6 0091
References: 91W2, 91Z1, 92Z1, 93Z1

Spectrum/model: **L11/$(C_iAs_s)^0$ pair, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0039$ $g_2 = 2.0003$ $g_3 = 2.0049$ Tr = 6.0091
References: 93Z1

Spectrum/model: **I5/(O□)$^-$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0017$ $g_2 = 2.0086$ $g_3 = 2.0021$ Tr = 6.0124
References: 76B3

Spectrum/model: **K2/plastic deformation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0058$ $g_2 = 2.0004$ $g_3 = 2.0083$ Tr = 6.0145 Ref. 76B1
$g_1 = 2.0021$ $g_2 = 1.9967$ $g_3 = 2.0083$ Tr = 6.0071 Ref. 76B1
$g_1 = 2.0058$ $g_2 = 2.0004$ $g_3 = 2.0094$ Tr = 6.0156 Ref. 75A1
References: 74S1, 75A1, 76B1, 79E1, 79W1, 80W3, 81S1, 83A1, 83W3, 85O1, 86Z1, 87Z1, 89S2, 00C1

Spectrum/model: **AA7/He□O center, He implantation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0045$ $g_2 = 2.0008$ $g_3 = 2.0096$ Tr = 6.0149
References: 85G3, 87G2

Spectrum/model: **G12/$(C_i)^+$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0068$ $g_2 = 2.0020$ $g_3 = 2.0062$ Tr = 6.0150
References: 65W1, 66C1, 76W4, 88T1, 90S2, 90S3, 93Z1, 99M2

Spectrum/model: **B1 (A center)/(O□)$^-$, irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0029$ $g_2 = 2.0096$ $g_3 = 2.0019$ Tr = 6.0144 Ref. 59B1
$g_1 = 2.0033$ $g_2 = 2.0092$ $g_3 = 2.0026$ Tr = 6.0151 Ref. 59W2
References: 58B1, 59B1, 59W1, 59W2, 61W1, 61W2, 62L1, 65C1, 65W1, 66C1, 71B1, 71D2, 75W1, 76B2, 76B3, 76L5, 77W2, 79B1, 83V1, 85G4, 85H1, 86K1, 88K2, 89G1, 89K2, 89K3, 96W2, 97C1

Spectrum/model: **AA8/He□O center, He implantation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0050$ $g_2 = 2.0015$ $g_3 = 2.0094$ Tr = 6.0159
References: 85G3, 87G2

Spectrum/model: **AA5/□He center, He implantation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0056$ $g_2 = 2.0096$ $g_3 = 2.0010$ Tr = 6.0162
References: 85G2, 87G2

Spectrum/model: **A4/($\square_3$)$^-$, neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0059$ $g_2 = 2.0030$ $g_3 = 2.0094$ Tr = 6.0183
References: 72L1, 74L2, 94V1

Spectrum/model: **($\square$OH)^0**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0087$ $g_2 = 2.0057$ $g_3 = 2.0043$ Tr = 6.0187
Remarks: motionally averaged configuration at temperatures above 240 K, low-temperature state of monoclinic-I symmetry observed below 180 K
References: 99J1, 00J1, 02A1

Spectrum/model: **AA6/$\square$He center, He implantation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0067$ $g_2 = 2.0090$ $g_3 = 2.0036$ Tr = 6.0193
References: 85G2, 87G2

Spectrum/model: **NL1/$P_2\square$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0047$ $g_2 = 2.0128$ $g_3 = 2.0026$ Tr = 6.0201
References: 77S1, 78S2

Spectrum/model: **P5 (VII,VIII center)/O$\square_3$, ($O_2\square_3$)^0, irradiation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0072$ $g_2 = 2.0051$ $g_3 = 2.0090$ Tr = 6.0213
References: 63J1, 65W1, 66C1, 71B1, 73B1, 76L1, 88W1

Spectrum/model: **WL3/(O$\square$) related, electron irradiation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0075$ $g_2 = 2.0040$ $g_3 = 2.0100$ Tr = 6.0215
References: 97A1

Spectrum/model: **G2/$\square^-$, irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0038$ $g_2 = 2.0151$ $g_3 = 2.0028$ Tr = 6.0217
References: 65W1, 66C1, 69W1, 73W1, 75W1, 77W2, 79W2, 83S1, 83W2, 85A2, 87A1, 87S1, 89K2, 92W1

Spectrum/model: **G3/($\square$+?), electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0044$ $g_2 = 2.0143$ $g_3 = 2.0032$ Tr = 6.0219
References: 65W1, 66C1, 75W1

Spectrum/model: **G4/($\square$+?), electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0058$ $g_2 = 2.0134$ $g_3 = 2.0027$ Tr = 6.0219
References: 65W1, 66C1, 75W1

Spectrum/model: **A16/(O+?)$^+$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0071$ $g_2 = 2.0036$ $g_3 = 2.0112$ Tr = 6.0219
References: 76L1, 76L4

Spectrum/model: **LAu1/Au doping**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0158$ $g_2 = 2.1017$ $g_3 = 1.9052$ Tr = 6.0227
References: 96W1

Spectrum/model: **SL1/[(O□)^0]*, irradiation**
Spin: $S = 1$
g-tensor: $g_1 = 2.00757$ $g_2 = 2.01020$ $g_3 = 2.00576$ Tr = 6.0236
Remark: designated S1 in earlier publications
References: 71B1, 71B2, 72B1, 72B2, 73V1, 76B2, 83V1, 84V2, 85V1, 86V2, 86V3, 90C1, 90V2, 92F1, 94G2, 95G1, 95S5, 95V2, 96A5, 96S11, 96S15, 97A1, 97S7, 98C1, 98S3, 98S9, 99L2

Spectrum/model: **A12/ion implantation**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0079$ $g_2 = 2.0030$ $g_3 = 2.0131$ Tr = 6.0240
References: 75L1

Spectrum/model: **A15/(O_3□$_3$)^0, electron irradiation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0085$ $g_2 = 2.0045$ $g_3 = 2.0115$ Tr = 6.0245
References: 76L1, 76L4, 77L1, 88W1

Spectrum/model: **PK3/O□$_3$ center, neutron irradiation**
Spin: $S = 1$
g-tensor: $g_1 = 2.0085$ $g_2 = 2.0048$ $g_3 = 2.0118$ Tr = 6.0251
References: 88W1

Spectrum/model: **I3/(O□)$^+$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0181$ $g_2 = 2.0209$ $g_3 = 2.0163$ Tr = 6.0553
References: 76B2

Spectrum/model: **(Ni_s)$^-$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.0163$ $g_2 = 2.0182$ $g_3 = 2.0536$ Tr = 6.0881
References: 83W2, 87V1, 89O1, 90A1, 90V3, 91S1, 92A4, 92W1, 95W2

Spectrum/model: **[(Fe_iAl_s)$_{or}$]^0**
Spin: $S = 3/2$
g-tensor: $g_1 = 2.080$ $g_2 = 2.059$ $g_3 = 2.043$ Tr = 6.182
References: 94I1

Spectrum/model: **KC2/dislocation state**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.48$ $g_2 = 1.82$ $g_3 = 1.89$ Tr = 6.19
References: 92K1, 93K1, 93K3, 95K2, 95K4, 96G1, 96K1, 97K2

Spectrum/model: **Au(2)/Au_2Cu_2**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.066$ $g_2 = 2.260$ $g_3 = 1.878$ Tr = 6.204
References: 80H1, 82H1, 83H2, 86H1, 87H1, 87H2, 91K4

Spectrum/model:	**Lu4/$[(Fe_iIn_s)_{or}]^0$**				
Spin:	$S = 3/2$				
g-tensor:	$g_1 = 2.09$	$g_2 = 2.05$	$g_3 = 2.07$	Tr = 6.21	
Remark:	for alternative analysis with $S = 1/2$, see below				
References:	90G2, 90O1, 91G2, 92G2, 93G1, 97T1				
Spectrum/model:	**$[Pt_s(H_i)_2]^-$**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.1299$	$g_2 = 1.9563$	$g_3 = 2.1683$	Tr = 6.2545	PtH_2
	$g_1 = 2.1319$	$g_2 = 1.9554$	$g_3 = 2.1688$	Tr = 6.2561	PtD_2
References:	93W1, 94H1, 94H3, 94W1, 95S1, 95U1, 99G3, 01H1, 02A1				
Spectrum/model:	**NL50/Au center**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.3015$	$g_2 = 1.9956$	$g_3 = 2.0752$	Tr = 6.3723	
References:	92S2, 95G3, 01H2				
Spectrum/model:	**Pt-complex II**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.1102$	$g_2 = 2.1455$	$g_3 = 2.1559$	Tr = 6.4116	
References:	89H1				
Spectrum/model:	**Pt_2(II)**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.1755$	$g_2 = 2.1631$	$g_3 = 2.1107$	Tr = 6.4493	
References:	92H1, 96J2				
Spectrum/model:	**LAu2/Au_sAu_s pair**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.2004$	$g_2 = 2.1827$	$g_3 = 2.1292$	Tr = 6.5123	
References:	96W1				
Spectrum/model:	**Pt_2(III)**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0968$	$g_2 = 2.3144$	$g_3 = 2.1113$	Tr = 6.5225	
References:	96J2				
Spectrum/model:	**Lu4/$[(Fe_iIn_s)_{or}]^0$**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 6.26$	$g_2 = 0.35$	$g_3 = 0.36$	Tr = 6.97	
Remark:	for alternative analysis with $S = 3/2$, see above				
References:	90G2, 93G1, 97T3				
Spectrum/model:	**$(FeGa)_{or}/[(Fe_iGa_s)_{or}]^0$**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 6.19$	$g_2 = 0.59$	$g_3 = 0.69$	Tr = 7.47	
Remark:	for resonance in other doublet, see p. 266				
References:	88A2, 88G1, 89A2, 90A1, 97T1, 97T3				

Spectrum/model: **$(FeAl)_{or}$, NL28/$[(Fe_iAl_s)_{or}]^0$**
Spin: $S = 1/2$
g-tensor: $g_1 = 5.885$ $g_2 = 1.236$ $g_3 = 1.612$ Tr = 8.733
Remark: for alternative analysis with $S = 3/2$, see p. 264, for resonance in other doublet, see below
References: 84K1, 85A1, 87G5, 88A2, 88G1, 89A2, 90A1, 91G3, 91W2, 92G5, 92T1, 94I1, 95S2, 96S3, 96S10, 97T1, 97T3, 98S11

Spectrum/model: **$[(Fe_iB_s)_{or}]^0$**
Spin: $S = 1/2$
g-tensor: $g_1 = 4.448$ $g_2 = 2.094$ $g_3 = 2.232$ Tr = 8.774
References: 95S2, 96S3, 96S10

Spectrum/model: **$(Fe_i)_2B$ center**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.73$ $g_2 = 5.80$ $g_3 = 1.94$ Tr = 9.47
References: 89A2, 89G2, 89G4, 90A1

Spectrum/model: **$(FeAl)_{or}/[(Fe_iAl_s)_{or}]^0$**
Spin: $S = 1/2$
g-tensor: $g_1 = 1.73$ $g_2 = 2.51$ $g_3 = 5.36$ Tr = 9.60
Remark: for resonance in other doublet, see above
References: 87G5, 88A2, 88G1, 89A2, 91G3, 92G5, 94I1, 97T3

Spectrum/model: **$(FeGa)_{or}/[(Fe_iGa_s)_{or}]^0$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.02$ $g_2 = 3.37$ $g_3 = 4.65$ Tr = 10.04
Remark: for resonance in other doublet, see p. 265
References: 87G5, 88A2, 88G1, 89A2, 90A1, 97T3

Spectrum/model: **$(FeIn)_{or}/[(Fe_iIn_s)_{or}]^0$**
Spin: $S = 1/2$
g-tensor: $g_1 = 2.07$ $g_2 = 3.78$ $g_3 = 4.40$ Tr = 10.25
Remark: excited state of Lu4 center, for alternative analysis with $S = 3/2$, see Ref. 90G2
References: 62L1, 84K1, 85A1, 87G1, 88A2, 88G1, 89A2, 90A1, 90G2, 91G2, 92E2, 92G2, 93G1, 97K1, 97T1, 97T3

Spectrum/model: **NL32/$(Fe_i)_2B$ center**
Spin: $S = 1/2$
g-tensor: $g_1 = 7.902$ $g_2 = 1.811$ $g_3 = 4.184$ Tr = 13.897
References: 89A2, 89G2, 89G4, 90A1, 90E1, 97E1

Spectrum/model: **Lu5/$[(Fe_iIn_s)_{or}]^+$**
Spin: $S = 1/2$
g-tensor: $g_1 \lesssim 0.3$ $g_2 \lesssim 0.3$ $g_3 = 14.1$ Tr $\lesssim 14.7$
References: 91G2, 92E2

Spectrum/model: **Lu1/Fe, In related**
Spin: $S = 1/2$
g-tensor: $g_1 = 4.997$ $g_2 = 5.216$ $g_3 = 5.468$ Tr = 15.681
References: 89O2

Table 11. Paramagnetic centers of orthorhombic-II symmetry, crystallographic pointgroup 222 (D_2). The principal axes of the **g**-tensor are: axis g_1 || [1, 0, 0], axis g_2 || [0, 1, 0], axis g_3 || [0, 0, 1]. Symbol □ used for single lattice vacancy. Spectra are arranged in order of increasing trace of their **g**-tensor. For the rotation pattern see Fig. 5.

Spectrum/model:	**NL25/$(Fe_i)_2$□, electron irradiation**				
Spin:	$S = 5/2$				
g-tensor:	$g_1 = 2.51$	$g_2 = 1.47$	$g_3 = 0.57$	Tr = 4.55	
Remark:	provisional analysis, symmetry not well established				
References:	82M1, 89A2				
Spectrum/model:	**P6 (IX center)/neutron irradiation**				
Spin:	$S = 1/2$				
g-tensor:	$g_1 = 2.0009$	$g_2 = 2.0032$	$g_3 = 2.0054$	Tr = 6.0095	Ref. 63J1
	$g_1 = 2.0015$	$g_2 = 2.0038$	$g_3 = 2.0056$	Tr = 6.0109	Ref. 74L3
Remarks:	symmetry not well established, g-values temperature dependent, measured at $T = 300$ K (Ref. 63J1) and $T = 315$ K (Ref. 74L3)				
References:	63J1, 66C1, 67L1, 72L1, 74L3, 76B5, 85G1, 95J1, 96V1				
Spectrum/model:	**NL24/$(Fe_i)_2$, electron irradiation**				
Spin:	$S = 5/2$				
g-tensor:	$g_1 = 3.66$	$g_2 = 3.93$	$g_3 = 2.12$	Tr = 9.71	
Remark:	provisional analysis, alternative analysis with monoclinic-I symmetry				
References:	82M1, 87K2				

Table 12. Paramagnetic centers of tetragonal symmetry, crystallographic pointgroups $\bar{4}$ (S_4) and $\bar{4}2m$ (D_{2d}). The principal axes of the **g**-tensor are: axis $g_{\parallel}$ || [1, 0, 0], axis $g_{\perp} \perp$ [1, 0, 0]. Symbol □ used for single lattice vacancy. Spectra are arranged in order of increasing trace of their **g**-tensor. For the rotation pattern see Fig. 6.

Spectrum/model:	**$(Au_s)^0$**			
Spin:	$S = 1/2$			
g-tensor:	$g_{\parallel} \approx 2.8$	$g_{\perp} \approx 0$	Tr ≈ 2.8	
References:	91W1, 92G2, 95G3, 95K5, 95W2			
Spectrum/model:	**$(In_s)^0$**			
Spin:	$S = 1/2$			
g-tensor:	$g_{\parallel} = 0.98$	$g_{\perp} = 1.57$	Tr = 4.12	
Remark:	large external uniaxial compressive stress along [1, 0, 0]			
References:	60F1, 61L2, 62L1			
Spectrum/model:	**$(Ga_s)^0$**			
Spin:	$S = 1/2$			
g-tensor:	$g_{\parallel} = 1.14$	$g_{\perp} = 2.04$	Tr = 5.22	
Remark:	large external uniaxial compressive stress along [1, 0, 0]			
References:	60F1, 61L2, 62L1			
Spectrum/model:	**$(Al_s)^0$**			
Spin:	$S = 1/2$			
g-tensor:	$g_{\parallel} = 1.18$	$g_{\perp} = 2.16$	Tr = 5.50	
Remark:	large external uniaxial compressive stress along [1, 0, 0]			
References:	60F1, 61L2, 62L1			

Spectrum/model: **NL58/$(Cu_iCu_i)^-$**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.9959$ $g_{\perp} = 1.9943$ Tr = 5.9845
References: 97H4

Spectrum/model: **Li(x)**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.9993$ $g_{\perp} = 1.9987$ Tr = 5.9967
References: 70W2

Spectrum/model: **$(Li_i)^0$**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.9997$ $g_{\perp} = 1.9987$ Tr = 5.9971
Remark: under [001] compression or [110] tension
References: 70G1, 70W2

Spectrum/model: **LMA/Li related**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.9997$ $g_{\perp} = 1.9987$ Tr = 5.9971
References: 78H1, 78H2

Spectrum/model: **UL1/oxygen-related shallow double donor**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.99989$ $g_{\perp} = 1.99971$ Tr = 5.99931
References: 91S3, 91S4, 93V1

Spectrum/model: **L1/irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0039$ $g_{\perp} = 1.9991$ Tr = 6.0021
References: 85H1

Spectrum/model: **O2/ion implantation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0005$ $g_{\perp} = 2.0020$ Tr = 6.0045
References: 75M1, 76L2

Spectrum/model: **G1/$\square^+$, irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0087$ $g_{\perp} = 1.9989$ Tr = 6.0065
References: 63W1, 65W1, 66C1, 69W1, 71D1, 73W1, 75W1, 77W2, 79W2, 81W3, 83N3, 83W2, 87A1, 87S1

Spectrum/model: **SL3/ion implantation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0027$ $g_{\perp} = 2.0023$ Tr = 6.0073
References: 73B2

Spectrum/model: **NL51/hydrogen implanation**
Spin: $S = 1$
g-tensor: $g_{\parallel} = 2.00707$ $g_{\perp} = 2.00069$ Tr = 6.00845
References: 94S3, 99G3, 02A1

Spectrum/model:	**G25/$(Si_i)^-$, electron irradiation**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 2.0089$	$g_{\perp} = 2.0006$	Tr = 6.0101
References:	75W1, 76L2, 79W2, 85H1		

Spectrum/model:	**A5/$[(Si_i)_2]^0$, neutron irradiation, He implantation**		
Spin:	$S = 1$		
g-tensor:	$g_{\parallel} = 2.0064$	$g_{\perp} = 2.0066$	Tr = 6.0196
References:	72L1, 76L2, 79K1, 85D1, 85G1		

Spectrum/model:	**B3/$[(Si_i)_2]^+$, irradiation, tetra-interstitial**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 2.0159$	$g_{\perp} = 2.0051$	Tr = 6.0261
References:	71D1, 76B5, 76L2, 78B1, 80G1, 94S3, 95J1, 99G3, 99T1, 01C1		

Spectrum/model:	**SL4/irradiation**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 2.0165$	$g_{\perp} = 2.0053$	Tr = 6.0271
Remark:	identical to B3, notation SL4 discontinued		
References:	74B1, 78B1		

Spectrum/model:	**$(B_s)^0$**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 1.21$	$g_{\perp} = 2.43$	Tr = 6.07
Remark:	large external uniaxial compressive stress along [1, 0, 0]		
References:	60F1, 61L2, 62L1, 73S1		

Table 13. Paramagnetic centers of trigonal symmetry, crystallographic pointgroups 3 (C_3), $\bar{3}$ (C_{3i}, S_6), 3m (C_{3v}), $\bar{3}$m (D_{3d}) and 32 (D_3). The principal axes of the **g**-tensor are: axis $g_{\parallel} \parallel$ [1, 1, 1], axis $g_{\perp} \perp$ [1, 1, 1]. Symbol □ used for single lattice vacancy. Spectra are arranged in order of increasing trace of their **g**-tensor. For the rotation pattern see Fig. 7.

Spectrum/model:	**Be-b/BeH, BeD**		
Spin:	$S = 3/2$		
g-tensor:	$g_{\parallel} = 0.829$	$g_{\perp} \approx 0.36$	Tr ≈ 1.549
D-tensor:	$\|D\| \approx 24.9$ GHz		
References:	97S8		

Spectrum/model:	**Be-d/BeX (X = Li, Fe?)**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 2.20$	$g_{\perp} \approx 0$	Tr ≈ 2.20
References:	97S8		

Spectrum/model:	**Be-c/BeX (X = Li, Fe?)**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 2.29$	$g_{\perp} \approx 0$	Tr ≈ 2.29
References:	97S8		

Spectrum/model:	**Be-a/BeH, BeD**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 2.59$	$g_{\perp} = 0$	Tr = 2.59
References:	97S8		
Spectrum/model:	**FeB(2)**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 3.58$	$g_{\perp} = 0.87$	Tr = 5.32
References:	89G4		
Spectrum/model:	**$(Cr_iAl_s)^0$**		
Spin:	$S = 5/2$		
g-tensor:	$g_{\parallel} = 1.994$	$g_{\perp} = 1.994$	Tr = 5.982
References:	62L1		
Spectrum/model:	**NL60/$(Se_sH_i)^0$**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 1.99635$	$g_{\perp} = 1.99459$	Tr = 5.98553
References:	99A1, 99H1, 99H2, 00H1, 01H2, 02A1		
Spectrum/model:	**NL61/$[Se_s(H_i)_2]^0$**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 1.99627$	$g_{\perp} = 1.99512$	Tr = 5.98651
References:	99A1, 99H1, 99H2, 00H1, 01H2, 02A1		
Spectrum/model:	**KEM-1/Fe,O related**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 1.9962$	$g_{\perp} = 1.9956$	Tr = 5.9874
References:	98M2, 99M3		
Spectrum/model:	**$(Mn_iZn_s)^0$**		
Spin:	$S = 5/2$		
g-tensor:	$g_{\parallel} = 2.001$	$g_{\perp} = 1.996$	Tr = 5.993
References:	62L1, 91A1, 92A5		
Spectrum/model:	**$(Cr_iGa_s)^0$**		
Spin:	$S = 5/2$		
g-tensor:	$g_{\parallel} = 1.995$	$g_{\perp} = 1.999$	Tr = 5.993
References:	62L1		
Spectrum/model:	**NL4/P related, electron irradiation**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 1.9957$	$g_{\perp} = 1.9988$	Tr = 5.9933
References:	77S1, 78S2		
Spectrum/model:	**$[(Mg_i)^+]$***		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 1.9974$	$g_{\perp} = 1.9986$	Tr = 5.9946
References:	73B3		
Spectrum/model:	**G22/$(Ga_i)^{2+}(Ga_s)^-$, electron irradiation**		
Spin:	$S = 1/2$		
g-tensor:	$g_{\parallel} = 2.0014$	$g_{\perp} = 1.9973$	Tr = 5.9960
References:	65W1, 66C1, 77W2		

Spectrum/model: **$(LiO)^0$**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.9978$ $g_{\perp} = 1.9992$ Tr = 5.9962
References: 54H1, 59F1, 62L1, 70G1

Spectrum/model: **AA9/$(H_{bc})^0$**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0011$ $g_{\perp} = 1.9983$ Tr = 5.9977
References: 87G3, 87G4, 89G10, 90G3, 91G1, 91H3, 91W2, 94B1, 96G2, 99G3, 02A1

Spectrum/model: **NL55/$(S_sH_i)^0$**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.99823$ $g_{\perp} = 1.99974$ Tr = 5.99771
References: 95A2, 95G2, 95Z1, 95Z2, 96M1, 96Z1, 97T4, 98A1, 99A1, 99G3, 99H2, 02A1

Spectrum/model: **NL35/Zn_sCr_i**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 1.9972$ $g_{\perp} = 2.0004$ Tr = 5.9980
Remark: for alternative analysis with $S = ½$, see p. 280
References: 90A3, 91A1, 92A4, 92A5, 93A1, 94B6

Spectrum/model: **AA13/oxygen related, irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.00245$ $g_{\perp} = 1.99852$ Tr = 5.99949
References: 95A1, 96A3, 96A4, 97M1, 97M2, 98M4, 99M2

Spectrum/model: **L7/$(C_sSi_iC_s)^-$ center, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0008$ $g_{\perp} = 1.9994$ Tr = 5.9996
Remark: motionally averaged state at $T > 15$ K
References: 88S1, 90S3

Spectrum/model: **$(Cr_iIn_s)^0$**
Spin: $S = 5/2$
g-tensor: $g_{\parallel} = 1.994$ $g_{\perp} = 2.003$ Tr = 6.000
References: 91E1, 91K1, 92E2

Spectrum/model: **$(Cr_iB_s)^0$**
Spin: $S = 5/2$
g-tensor: $g_{\parallel} = 2.0$ $g_{\perp} = 2.0$ Tr = 6.0
References: 62L1, 01K1

Spectrum/model: **NL44/Ag center**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.0004$ $g_{\perp} = 1.9999$ Tr = 6.0002
References: 92S3

Spectrum/model: **TD-II/new oxygen-related donor**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.9999$ $g_{\perp} = 2.0002$ Tr = 6.0003
References: 88B4

Spectrum/model: **NL54/$(S_sH_i)^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 1.99886$ $g_{\perp} = 2.00126$ Tr = 6.00138
References: 95A2, 95G2, 95Z1, 95Z2, 96M1, 96Z1, 97T4, 98A1, 99A1, 99G3, 99H2, 02A1

Spectrum/model: **P_iC_s**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.002$ $g_{\perp} = 2.000$ Tr = 6.002
References: 93S4

Spectrum/model: **$[(S_s)_2]^+$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 1.99992$ $g_{\perp} = 2.00115$ Tr = 6.00222
References: 65L1, 84W1, 88O2, 88S3, 89G9, 92A3, 92A4, 95Z2

Spectrum/model: **G19/$(Al_i)^{2+}(Al_s)^-$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0006$ $g_{\perp} = 2.0009$ Tr = 6.0024
References: 65W1, 66C1, 69W1, 77W2, 85N1, 92S6, 98G2

Spectrum/model: **NL31/SeAl center**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.00250$ $g_{\perp} = 2.00034$ Tr = 6.00318
References: 88O1

Spectrum/model: **G20/$(Al_i)^{2+}(Al_s)^-$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0014$ $g_{\perp} = 2.0025$ Tr = 6.0064
References: 65W1, 66C1, 69W1, 77W2, 98G2

Spectrum/model: **G6/$(\square_2)^+$, irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0034$ $g_{\perp} = 2.0018$ Tr = 6.0070
Remark: motionally averaged state at $T = 80$ K
References: 86D2

Spectrum/model: **GGA2/$(C_s–C_s)^-$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.00309$ $g_{\perp} = 2.00300$ Tr = 6.00909
References: 67W1, 69H1, 74L1, 99L1, 00B1, 00F1

Spectrum/model: **$[(Se_s)_2]^+$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0020$ $g_{\perp} = 2.0039$ Tr = 6.0098
References: 84W1, 88O2, 88S2, 89G9

Spectrum/model: **$(Cr_iCu_s)^0$**
Spin: $S = 3/2$
g-tensor: $g_{\|} = 2.003$ $g_{\perp} = 2.0045$ Tr = 6.0120
References: 87S3, 88R1, 90A1

Spectrum/model: **$(Mn_iGa_s)^+$**
Spin: $S = 5/2$
g-tensor: $g_{\|} = 2.004$ $g_{\perp} = 2.004$ Tr = 6.012
References: 91K1, 91K3, 92E2

Spectrum/model: **$(Mn_iB_s)^+$**
Spin: $S = 5/2$
g-tensor: $g_{\|} = 2.0041$ $g_{\perp} = 2.0041$ Tr = 6.0123
References: 62L1, 82K1, 87G5, 88G1, 89I1

Spectrum/model: **$(Cr_iAu_s)^0$**
Spin: $S = 3/2$
g-tensor: $g_{\|} = 2.0148$ $g_{\perp} = 1.999$ Tr = 6.0128
Remark: for alternative analysis with $S = 1/2$, see p. 280
References: 62L1, 86H1, 87H1, 88R1

Spectrum/model: **PT1/$(C_sSi_iC_s)^0$, electron irradiation**
Spin: $S = 1$
g-tensor: $g_{\|} = 2.0076$ $g_{\perp} = 2.003$ Tr = 6.0136
References: 84V1, 85V1, 86V2, 86V3, 88K2, 90V2, 91V1, 92V1, 95V1, 95V2, 96A5, 97A1, 97A2, 99L2

Spectrum/model: **$(Mn_iAl_s)^+$**
Spin: $S = 5/2$
g-tensor: $g_{\|} = 2.003$ $g_{\perp} = 2.006$ Tr = 6.015
References: 62L1

Spectrum/model: **$(Mn_iAu_s)^+$**
Spin: $S = 3/2$
g-tensor: $g_{\|} = 2.003$ $g_{\perp} = 2.006$ Tr = 6.015
References: 60W2, 62L1, 86D3, 86H1, 87H1

Spectrum/model: **$(Mn_iIn_s)^+$**
Spin: $S = 5/2$
g-tensor: $g_{\|} = 2.005$ $g_{\perp} = 2.005$ Tr = 6.015
References: 90K3, 90O1, 92G2

Spectrum/model: **B4/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0007$ $g_{\perp} = 2.0073$ Tr = 6.0153
References: 71D1

Spectrum/model: **A19/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0076$ $g_{\perp} = 2.0039$ Tr = 6.0154
References: 76L3

Spectrum/model: **G29/$(Sn\square)^0$, electron irradiation**
Spin: $S = 1$
g-tensor: $g_{\|} = 2.0107$ $g_{\perp} = 2.0025$ Tr = 6.0157
References: 75W3, 77W2, 99F1, 00F1

Spectrum/model: **$[(Mn_i)_3]^{2+}$**
Spin: $S = 11/2$
g-tensor: $g_{\|} = 2.016$ $g_{\perp} = 2.00$ Tr = 6.016
References: 00M1

Spectrum/model: **A2/neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0074$ $g_{\perp} = 2.0044$ Tr = 6.0162
References: 72L1

Spectrum/model: **T1/P_b like, oxygen implantation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0013$ $g_{\perp} = 2.0082$ Tr = 6.0177
References: 86H2, 86B3

Spectrum/model: **K9**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0008$ $g_{\perp} = 2.0086$ Tr = 6.0180
References: 80W2, 83W1

Spectrum/model: **P_{bN}/ –Si≡Si_3 at (111)Si/Si_3N_4 interface**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.00150$ $g_{\perp} = 2.00859$ Tr = 6.01868
References: 89S3, 89S4, 89S5

Spectrum/model: **SL6/N related**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0018$ $g_{\perp} = 2.0085$ Tr = 6.0188
References: 80B1, 81B1, 82B1, 84S1, 86I1, 88M3, 89M1

Spectrum/model: **H11/$\square_2B_i$ center, irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0022$ $g_{\perp} = 2.0084$ Tr = 6.0190
References: 86D2, 89D1

Spectrum/model: **P_{b0}/ –Si≡Si_3 at (100)Si/SiO_2 interface**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0018$ $g_{\perp} = 2.0081$ Tr = 6.0179 Ref. 98S4
$g_{\|} = 2.0013$ $g_{\perp} = 2.0090$ Tr = 6.0193 Ref. 86S3
References: 81P1, 86S3, 87B3, 87P1, 87S4, 90S5, 91S5, 94S2, 95S3, 96C2, 96S7, 96S13, 98S4, 98S5, 98S6, 98S8, 98S10, 98S12, 99S4, 00K1

Spectrum/model: **P_b/ –Si≡Si_3 at (111)Si/SiO_2 interface**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0011$ $g_{\perp} = 2.0080$ Tr = 6.0171 Ref. 87C1
$g_{\|} = 2.0013$ $g_{\perp} = 2.0086$ Tr = 6.0185 Ref. 81P1
$g_{\|} = 2.0016$ $g_{\perp} = 2.0090$ Tr = 6.0196 Ref. 83B1
References: 66N1, 71N1, 79C1, 81P1, 83B1, 85B1, 86B1, 86B2, 86B3, 86B4, 86V1, 87B3, 87C1, 87P1, 87S5, 88B5, 88B6, 89G7, 89G8, 89S4, 89S5, 90B1, 90B2, 90S4, 90S6, 91G4, 91S2, 91S5, 91S6, 91S7, 92S5, 92V2, 93A2, 93S3, 93S5, 94B4, 94B5, 94P1, 94S5, 94S4, 95B1, 95H2, 95L1, 95S3, 95S4, 95S6, 96C2, 96S7, 96S8, 96S9, 96S12, 96S13, 97B3, 97S5, 97S6, 98A2, 98S7, 98S8, 98S10, 98S12, 99G3, 99S1, 99S2, 99S3, 99U1, 99Y1, 00K1, 00S2, 02A1

Spectrum/model: **NL52/P_b like, H related**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.00069$ $g_{\perp} = 2.00951$ Tr = 6.01971
References: 93S1, 94B3, 94B4, 94S1, 94S4, 94S5, 95S4, 99G3, 02A1

Spectrum/model: **GGA3/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0022$ $g_{\perp} = 2.0091$ Tr = 6.0204
References: 69H1

Spectrum/model: **SL5/$(N_S)^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0026$ $g_{\perp} = 2.0089$ Tr =6.0204
References: 80B1, 81B1, 82B1, 84S1, 86I1, 88M2, 88M3, 89M1, 90M1. 91W2

Spectrum/model: **B2/neutron irradiation, ion implantation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0008$ $g_{\perp} = 2.0100$ Tr = 6.0208
Remark: identical to S1
References: 69D1, 71D2, 74G1, 75B2, 75K1, 76G1, 77M1, 79K1, 94V1. 98L3, 99G3

Spectrum/model: **G8/$(P_S\square)^0$, irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0081$ $g_{\perp} = 2.0064$ Tr = 6.0209
Remark: motionally averaged state at $T = 300$ K
References: 64W1, 72L2

Spectrum/model: **$(\square H)^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0081$ $g_{\perp} = 2.0064$ Tr = 6.0209
Remark: motionally averaged state at $T = 145$ K
References: 97B1, 97J1, 98S1

Spectrum/model: **A1/neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0018$ $g_{\perp} = 2.0096$ Tr = 6.0210
References: 72L1

Spectrum/model: **S1/ion implantation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0010$ $g_{\perp} = 2.0103$ Tr = 6.0216
Remark: also analyzed in monoclinic-I symmetry
References: 67L1, 67L2, 73B1, 79K1, 85D2, 91G1, 97B1, 97J1, 97P1, 98S1, 99G3, 02A1

Spectrum/model: **NL57/$(Ag_sAg_i)^-$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 1.9971$ $g_{\perp} = 2.0127$ Tr = 6.0225
References: 97H2, 97H3

Spectrum/model: **$(Mn_iAu_s)^-$**
Spin: $S = 5/2$
g-tensor: $g_{\parallel} = 1.991$ $g_{\perp} = 2.016$ Tr = 6.023
References: 60W2, 62L1, 86D3, 86H1, 87H1

Spectrum/model: **PT2/electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.003$ $g_{\perp} = 2.010$ Tr = 6.023
References: 84V1, 86V2, 86V3, 88K2, 90V2, 91V1

Spectrum/model: **P7/neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0028$ $g_{\perp} = 2.0104$ Tr = 6.0236
Remark: identical to spectrum A3
References: 65H1

Spectrum/model: **A3/$(\square_4)^-$, neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0029$ $g_{\perp} = 2.0104$ Tr = 6.0237
Remark: identical to spectrum P7
References: 65H1, 72L1, 74L2, 86D2

Spectrum/model: **AA17/extended multi-H center, irradiation and anneal**
Spin: $S = 1$
g-tensor: $g_{\parallel} = 2.0028$ $g_{\perp} = 2.0106$ Tr = 6.0240
References: 99G1, 99T1, 00G1, 01M1, 02A1

Spectrum/model: **A7/neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.9914$ $g_{\perp} = 2.0165$ Tr = 6.0244
References: 72L1

Spectrum/model: **WL2/C related, electron irradiation**
Spin: $S = 1$
g-tensor: $g_{\parallel} = 2.0027$ $g_{\perp} = 2.0117$ Tr = 6.0261
References: 97A1, 98L1

Spectrum/model: **K5/plastic deformation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0020$ $g_{\perp} = 2.0124$ Tr = 6.0268
References: 76W2, 77W1, 79W1, 80W3, 83W3, 85K2, 85O1

Spectrum/model: **A9/neutron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0049$ $g_{\perp} = 2.0112$ Tr = 6.0273
References: 74L1

Spectrum/model: **G7/$(\square_2)^-$, irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0116$ $g_{\perp} = 2.0079$ Tr = 6.0274
Remark: motionally averaged state at $T = 90$ K
References: 65W2, 72L2, 85D2, 86D2

Spectrum/model: **PT3/ ($\square$P)*, electron irradiation**
Spin: $S = 1$
g-tensor: $g_{\parallel} = 2.010$ $3\,g_{\parallel} = 6.030$
Remark: incomplete data for angular dependence
References: 86V2, 86V3, 88K2, 90V2

Spectrum/model: **G9/($Al_s\square$)$^-$, electron irradiation**
Spin: $S = 1$
g-tensor: $g_{\parallel} = 2.0136$ $g_{\perp} = 2.0085$ Tr = 6.0306
References: 65W1, 66C1, 67W2, 69W1, 77W2

Spectrum/model: **$(Mn_iCu_s)^+$**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.0065$ $g_{\perp} = 2.016$ Tr = 6.0385
References: 86D3, 90A1

Spectrum/model: **($Pt^+\square$) complex**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.97$ $g_{\perp} = 2.04$ Tr = 6.05
References: 92C2

Spectrum/model: **$[(Mn_i)_3Mn_i]^-$**
Spin: $S = 11/2$
g-tensor: $g_{\parallel} = 2.06$ $g_{\perp} = 2.00$ Tr = 6.06
References: 87H2, 93K2, 94K1, 00M1

Spectrum/model: **$(Mn_iPt_s)^0$**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.027$ $g_{\perp} = 2.017$ Tr = 6.061
References: 62L1

Spectrum/model: **$(Mn_iCu_s)^-$**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.0130$ $g_{\perp} = 2.025$ Tr = 6.0630
References: 86D3, 90A1

Spectrum/model: **NL46/Ag pair**
Spin: $S = 7/2$
g-tensor: $g_{\parallel} = 2.018$ $g_{\perp} = 2.036$ Tr = 6.090
References: 92S4, 93S2

Spectrum/model: **NL45/Ag pair**
Spin: $S = 5/2$
g-tensor: $g_{\parallel} = 2.020$ $g_{\perp} = 2.036$ Tr = 6.092
References: 92S4, 93S2

Spectrum/model: **A22/Fe$\square$ electron irradiation, quenching**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.1001$ $g_{\perp} = 2.0132$ Tr = 6.1265
Remark: for alternative analysis with $S = ½$, see p. 281
References: 79L1, 80M1

Spectrum/model: **6-Pt(A)/$(Pt_s)_3(Si_s)_2(Pt_s)_3$**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 1.917$ $g_{\perp} = 2.117$ Tr = 6.151
References: 92H2, 93H1, 95H3, 96J2

Spectrum/model: **FeB(1)/$(Fe_iB_s)^0$**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.0676$ $g_{\perp} = 2.0452$ Tr = 6.158
Remark: for alternative analysis with $S = ½$, see p. 281
References: 62L1, 81G2, 81W2, 83G2, 84K1, 85A1, 87G5, 90S1, 93G4, 94G1, 94G3, 95S2, 96S3, 96S10, 97E1

Spectrum/model: **carbon related 1Pt**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.1111$ $g_{\perp} = 2.0385$ Tr = 6.1881
References: 97S1

Spectrum/model: **carbon related 3Pt**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.0358$ $g_{\perp} = 2.0802$ Tr = 6.1962
References: 97S1

Spectrum/model: **NL22/$(Fe_i)_4$**
Spin: $S = 4$
g-tensor: $g_{\parallel} = 2.075$ $g_{\perp} = 2.068$ Tr = 6.211
References: 82M1, 89A2

Spectrum/model: **NL20/$[(Fe_i)_2\square]^-$, electron irradiation**
Spin: $S = 5/2$
g-tensor: $g_{\parallel} = 2.059$ $g_{\perp} = 2.078$ Tr = 6.215
Remark: for alternative analysis with $S = 1/2$, see p. 281
References: 80M1, 82M1

Spectrum/model: **NL38/Zn_sFe_i**
Spin: $S = 3/2$
g-tensor: $g_{\parallel} = 2.1520$ $g_{\perp} = 2.0328$ Tr = 6.2176
References: 90A3, 91A1, 92A5, 93A1

Spectrum/model: **Pd_sFe_i**
Spin: $S = 1/2$
g-tensor: $g_{\parallel} = 2.0407$ $g_{\perp} = 2.0887$ Tr = 6.2181
References: 89A2, 89O1, 90A1

Spectrum/model: **$[(Fe_iB_s)_{tr}]^-$**
Spin: $S = 1$
g-tensor: $g_{\parallel} = 2.080$ $g_{\perp} = 2.070$ Tr = 6.220
References: 92G6, 93G2, 94G1

Spectrum/model: **NL67/Ag,Au center**
Spin: $S = 1$
g-tensor: $g_{\parallel} = 2.0478$ $g_{\perp} = 2.0875$ Tr = 6.2228
References: 01H2

Spectrum/model: **$[(Fe_iAl_s)_{tr}]^-$**
Spin: $S = 1$
g-tensor: $g_{\|} = 2.075$ $g_{\perp} = 2.075$ Tr = 6.225
References: 93G2, 94G1, 94I1

Spectrum/model: **Pt-complex I/$[Pt_s(Li_i)_3]^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 1.898$ $g_{\perp} = 2.165$ Tr = 6.228
References: 89H1, 89H3, 92G2, 94A1, 95A3, 95W1

Spectrum/model: **Pt(II)/Pt_sFe_i**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0124$ $g_{\perp} = 2.1264$ Tr = 6.2652
References: 62L1, 62W1, 89A2, 89O1, 90A1

Spectrum/model: **NL43/FeAg**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0680$ $g_{\perp} = 2.0986$ Tr = 6.2652
References: 92S3

Spectrum/model: **Au(5)/$[Au_s(Li_i)_3]^+$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 1.8517$ $g_{\perp} = 2.2143$ Tr = 6.2803
References: 86H1, 87H1, 87H2, 89H3, 92G2, 94A1, 95A3, 95W1, 00L1

Spectrum/model: **NL65/PtH_3**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 1.9673$ $g_{\perp} = 2.1569$ Tr = 6.2811
References: 01H1, 01H2, 02A1, 02H1, 02H2

Spectrum/model: **NL19/Fe□, electron irradiation**
Spin: $S = 3/2$
g-tensor: $g_{\|} = 2.1163$ $g_{\perp} = 2.0935$ Tr = 6.3033
References: 80M1, 82M1, 89A2, 90A1

Spectrum/model: **A23, Au(1)/$(Au_sFe_i)^0$, quenching**
Spin: $S = 1/2$

g-tensor:				
	$g_{\|} = 2.1001$	$g_{\perp} = 2.1178$	Tr = 6.3357	Ref. 79L1
	$g_{\|} = 2.1005$	$g_{\perp} = 2.1183$	Tr = 6.3371	Ref. 80H1
	$g_{\|} = 2.0993$	$g_{\perp} = 2.1165$	Tr = 6.3323	Ref. 81K1

References: 79L1, 80H1, 81H1, 81K1, 82H1, 82S1, 86H1, 87H1, 87H2, 89A2

Spectrum/model: **6-Pt(B)/$(Pt_s)_3(Si_s)_2(Pt_s)_3$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.057$ $g_{\perp} = 2.177$ Tr = 6.411
References: 93H1, 95H3, 96J2

Spectrum/model: **ZnX_1, ZnX_2**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.14$ $3g_{\|} = 6.42$
Remark: incomplete data for angular dependence
References: 95S8, 96S14

Spectrum/model: **NL53/$[Pt_s(H_i)_2]_3$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.5082$ $g_{\perp} = 2.0206$ Tr = 6.5494
References: 94H1, 94H3, 99G3, 02A1

Spectrum/model: **OEr-2'/Er^{3+}, O co-implantation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 0.69$ $g_{\perp} = 3.24$ Tr = 7.17
References: 99C1, 99C2, 99C3

Spectrum/model: **NL47/Ag doping**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 5.776$ $g_{\perp} = 1.096$ Tr = 7.968
References: 92S4, 93S2

Spectrum/model: **Lu7/$[(Fe_iAl_s)_{tr}]^+$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 8.51$ $g_{\perp} \approx 0$ Tr ≈ 8.51
References: 92E3, 93G2, 94G1

Spectrum/model: **Lu2/$[(Fe_iIn_s)_{tr}]^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 6.389$ $g_{\perp} = 1.074$ Tr = 8.537
References: 89G5, 89O2, 89O3, 90A1, 91G2, 92E2, 93G1, 97T1, 97T3

Spectrum/model: **Lu6/$[(Fe_iGa_s)_{tr}]^+$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 8.54$ $g_{\perp} \approx 0$ Tr ≈ 8.54
References: 92E3

Spectrum/model: **NL27/$[(Fe_iAl_s)_{tr}]^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 6.389$ $g_{\perp} = 1.138$ Tr = 8.665
References: 84K1, 85A1, 87G5, 88A2, 88G1, 89A2, 89O3, 90A1, 91G3, 91W2, 92G5, 92T1, 93G2, 94G1, 94I1, 95S2, 96S3, 96S10, 97T1, 97T3, 98S11

Spectrum/model: **$[(Fe_iAl_s)_{tr}]^+$**
Spin: $S = 1$
g-tensor: $g_{\|} = 4.205$ $g_{\perp} = 2.3$ Tr = 8.8
References: 94G1, 94I1

Spectrum/model: **$(Cr_iAu_s)^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.0145$ $g_{\perp} = 3.9817$ Tr = 9.9779
Remark: for alternative analysis with $S = 3/2$, see p. 273
References: 60W2

Spectrum/model: **NL35/Zn_sCr_i**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 1.9980$ $g_{\perp} = 3.9980$ Tr = 9.9940
Remark: for alternative analysis with $S = 3/2$, see p. 271
References: 90A3, 92A4, 93A1

Spectrum/model: **$Fe_i^+Cd_s^{2-}$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 3.8972$ $g_{\perp} = 3.0595$ Tr = 10.0162
References: 99N1

Spectrum/model: **Lu3/Mn_iIn_s**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.030$ $g_{\perp} = 4.016$ Tr = 10.062
References: 89O2

Spectrum/model: **$[(Fe_iGa_s)_{tr}]^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 5.087$ $g_{\perp} = 2.530$ Tr = 10.147
References: 60L1, 62L1, 84K1, 85A1, 87G5, 88A2, 88G1, 89A2, 90A1, 97T1, 97T3

Spectrum/model: **A22/Fe□, electron irradiation, quenching**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.1001$ $g_{\perp} = 4.0264$ Tr = 10.1529
Remark: for alternative analysis with $S = 3/2$, see p. 277
References: 79L1, 80M1

Spectrum/model: **FeB(1)/$[(Fe_iB_s)_{tr}]^0$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.07$ $g_{\perp} = 4.09$ Tr = 10.25
Remark: for alternative analysis with $S = 3/2$, see p. 278
References: 87G5, 88A2, 88G1, 89A2, 90A1, 94G1, 95S2, 96S3, 98S11

Spectrum/model: **$[(Fe_iAl_s)_{tr}]^{+/0}$**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 8.395$ $g_{\perp} = 1.076$ Tr = 10.547
References: 91G3, 92G5, 94G1

Spectrum/model: **OEr-4/Er^{3+}, O co-implantation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.00$ $g_{\perp} = 6.23$ Tr = 14.46
References: 99C1, 99C2, 99C3

Spectrum/model: **NL20/$[(Fe_i)_2$□$]^-$, electron irradiation**
Spin: $S = 1/2$
g-tensor: $g_{\|} = 2.059$ $g_{\perp} = 6.235$ Tr = 14.529
Remark: for alternative analysis with $S = 5/2$, see p. 278
References: 80M1, 82M1, 89A2, 90A1

Table 14. Paramagnetic centers of cubic symmetry, crystallographic pointgroups 23 (T) and $\bar{4}3m$ (T_d). Spectra are arranged in order of increasing trace of their **g**-tensor, except for the shallow-acceptor spectra, which are given first. For the rotation pattern see Fig. 8.

Spectrum/model:	**$(B_s)^0$**		
Spin:	$S = 3/2$		
g-value:	$g_1 = -1.21$	$g_2 = 0.002$	Ref. 63B1
	$g_1 = -1.071$	$g_2 = -0.031$	Ref. 78N1
	$g_1 = 1.070$	$g_2 = 0.033$	Ref. 92K4
	$g_1 = 1.03$	$g_2 = 0.04$	Ref. 96K2
References:	63B1, 68Z1, 73C1, 73C2, 73S1, 78N1, 78N2, 80M2, 81W3, 82K2, 85K1, 92K4, 96K2, 97H5		
Spectrum/model:	**$(Al_s)^0$**		
Spin:	$S = 3/2$		
g-value:	$g_1 = -1.19$	$g_2 = +0.047$	Ref. 63B1
	$g_1 = -0.998$	$g_2 = +0.015$	Ref. 81N1
	$g_1 = -0.993$	$g_2 = -0.011$	Ref. 82K2
	$g_1 = 0.997$	$g_2 = -0.014$	Ref. 92K4
	$g_1 = 0.98$	$g_2 = -0.01$	Ref. 96K2
References:	63B1, 73C2, 81N1, 82K2, 83N3, 85K1, 92K4, 96K2, 97H5		
Spectrum/model:	**$(Ga_s)^0$**		
Spin:	$S = 3/2$		
g-value:	$g_1 = -1.14$	$g_2 = +0.051$	Ref. 63B1
	$g_1 = -0.994$	$g_2 = +0.019$	Ref. 81N1
	$g_1 = -0.989$	$g_2 = -0.015$	Ref. 82K2
:	$g_1 = 0.993$	$g_2 = -0.017$	Ref. 92K4
	$g_1 = 0.96$	$g_2 = -0.01$	Ref. 96K2
References:	63B1, 80M2, 81N1, 82K2, 85K1, 92K4, 96K2, 97H5		
Spectrum/model:	**$(In_s)^0$**		
Spin:	$S = 3/2$		
g-value:	$g_1 = -1.00$	$g_2 = 0.087$	Ref. 63B1
	$g_1 = 0.885$	$g_2 = -0.056$	Ref. 92K4
	$g_1 = 0.86$	$g_2 = -0.05$	Ref. 96K2
References:	63B1, 73C2, 80M2, 85K1, 92K4, 96K2, 97H5		
Spectrum/model:	**$(Tl_s)^0$**		
Spin:	$S = 3/2$		
g-value:	$g_1 = 0.60$	$g_2 = 0.05$	Ref. 96K2
References:	95K3, 96K2		
Spectrum/model:	**$(Be_s)^-$**		
Spin:	$S = 3/2$		
g-value:	$\|g_1\| = 0.70$	$\|g_2\| < 0.005$	
References:	98S13		

Spectrum/model: $(Zn_s)^-$
Spin: $S = 3/2$
g-value: $|g_1| = 1.1749$ $|g_2| = 0.0402$, $g_1 g_2 > 0$ Ref. 99G2
$g_1 = +0.73$ $g_2 = -0.018$ Ref. 00S1
Remark: alternative cubic spectrum with $S = 1/2$ reported in [72G1]
References: 99G2, 00S1

Spectrum/model: $[(Mn_i)^+]^{**}$
Spin: $S = 3$
g-value: $g = 1.34$
Remark: excited state
References: 62L1

Spectrum/model: $[(Mn_i)^0]^*$
Spin: $S = 3/2$
g-value: $g = 1.46$
Remark: excited state
References: 62L1

Spectrum/model: $[(Mn_i)^+]^*$
Spin: $S = 2$
g-value: $g = 1.68$
Remark: excited state
References: 62L1

Spectrum/model: $[(Cr_i)^0]^*$
Spin: $S = 2$
g-value: $g = 1.72$
Remark: excited state
References: 62L1

Spectrum/model: **Cd(1)/$(Cd_s)^+$**
Spin: $S = 3/2$
g-value: $|g_1| = 1.9462$, | $g_2| = 0.0024$, $g_1 g_2 > 0$
References: 97G3, 98N1

Spectrum/model: **NL42/$(Ag_i)^0$**
Spin: $S = 1/2$
g-value: $g = 1.9744$
References: 92S3

Spectrum/model: $(V_i)^{2+}$
Spin: $S = 3/2$
g-value: $g = 1.9892$
References: 60W1, 62L1, 87K5

Spectrum/model: **NL59/Cu center**
Spin: $S = 1/2$
g-value: $g \approx 1.9956$
References: 97H4

Spectrum/model: **$(Cr_S)^0$**
Spin: $S = 1$
g-value: $g = 1.9962$
References: 62L1

Spectrum/model: **$(Cr_i)^+$**
Spin: $S = 5/2$
g-value: $g = 1.9978$
References: 60W1, 62L1, 81F1, 86S2, 87K6, 95S5, 01K1

Spectrum/model: **NL29/$(Ti_i)^+$**
Spin: $S = 3/2$
g-value: $g = 1.99806$
References: 85W1, 85W2, 86S2, 88W2, 92A3, 92A4

Spectrum/model: **$(Mg_i)^+$**
Spin: $S = 1/2$
g-value: $g = 1.9981$
References: 73B3

Spectrum/model: **NL6/P related, electron irradiation**
Spin: $S = 1/2$
g-value: $g = 1.9982$
References: 77S1, 78S2

Spectrum/model: **$(As_S)^0$**
Spin: $S = 1/2$
g-value: $g = 1.99837$
References: 54F1, 59F1, 61W3, 62L1, 69H2, 73C1, 74A1, 92S6, 94H5, 98S2

Spectrum/model: **RCA2/Li,O related, electron irradiation**
Spin: $S = 1/2$
g-value: $g = 1.9985$
References: 66G1

Spectrum/model: **$(P_S)^0$**
Spin: $S = 1/2$
g-value: $g = 1.99850$
References: 54F1, 56F1, 56F2, 57F1, 58F1, 59F1, 59F2, 60L2, 61W3, 62L1, 65M1, 69H2, 74A1, 76N1, 76S1, 86K3, 89V1, 91M1, 91M2, 92M1, 92S6, 94G2, 94H5, 94M5, 95F1, 95G1, 95S5, 96F1, 96S11, 97W1, 98P1, 98S2, 98S3, 99P1, 01P1

Spectrum/model: **$(Sb_S)^0$**
Spin: $S = 1/2$
g-value: $g = 1.99858$
References: 58E1, 59F1, 61W3, 62L1, 69H2, 92S6

Spectrum/model: **NL5/P related, electron irradiation**
Spin: $S = 1/2$
g-value: $g = 1.9986$
References: 77S1, 78S2

Spectrum/model: **TU1/H,O related center**
Spin: $S = 1/2$
g-value: $g = 1.99870$
References: 97M3, 98M1, 02A1

Spectrum/model: **DIB, HSD/donor impurity band electron**
Spin: $S = 1/2$
g-value: $g = 1.99875$
References: 59F1, 62L1, 74G1, 75K1, 83G5, 99G3, 02A1

Spectrum/model: **NL10*/heat treatment**
Spin: $S = 1/2$
g-value: $g = 1.999$
Remark: possibly identical to NL15 or NL18
References: 94H4, 02A1

Spectrum/model: **A21/surface damage, quenching**
Spin: $S = 1/2$
g-value: $g = 1.9992$
References: 77L2, 79L1

Spectrum/model: **NL15/heat treatment**
Spin: $S = 1/2$
g-value: $g = 1.99926$
References: 78M1

Spectrum/model: **CENG(1)/oxygen related, heat treatment**
Spin: $S = 1/2$
g-value: $g = 1.99931$
References: 86V1

Spectrum/model: **NL18/heat treatment**
Spin: $S = 1/2$
g-value: $g = 1.99944$
References: 78M1

Spectrum/model: **CB/conduction band electron**
Spin: $S = 1/2$
g-value: $g = 1.9995$
$g = 2.001$ Ref. 53P1
References: 53P1, 96F1, 96M2, 97M4, 97Y1, 97Y2, 00F2

Spectrum/model: **RCA1 (L center)/Li related, electron irradiation**
Spin: $S = 1/2$
g-value: $g = 1.9996$
References: 66G1

Spectrum/model: **AA12/oxygen related, irradiation**
Spin: $S = 1/2$
g-value: $g = 1.9998$
References: 95A1, 96A4, 97M1, 97M2, 98M4, 99M2

Spectrum/model: **D(C,N,O), USTD/CNO complex, heat treatment**
Spin: $S = 1/2$
g-value: $g = 1.9999$
References: 91H4, 95H1

Spectrum/model: **$(Bi_s)^0$**
Spin: $S = 1/2$
g-value: $g = 2.0003$
References: 59F1, 62L1

Spectrum/model: **G18/$(Al_i)^{2+}$, electron irradiation**
Spin: $S = 1/2$
g-value: $g = 2.0019$
References: 64W2, 65W1, 66C1, 69B1, 69B2, 69W1, 70B1, 77W2, 85N1, 91W2, 92S6, 97M1, 98G2, 99G3, 99M2

Spectrum/model: **NL26/N_i**
Spin: $S = 1/2$
g-value: $g = 2.0022$
References: 84S1

Spectrum/model: **htc (heat treatment center)**
Spin: $S = 1/2$
g-value: $g = 2.0023$
References: 59F1

Spectrum/model: **A13/ion implantation**
Spin: $S = 1/2$
g-value: $g = 2.0023$
References: 74L4, 75L1

Spectrum/model: **$(Te_s)^+$**
Spin: $S = 1/2$
g-value: $g = 2.0023$
References: 81G1, 83N1, 84G1, 88S2, 92S6

Spectrum/model: **UMR/argon ion implantation**
Spin: $S = 1/2$
g-value: $g = 2.0029$
References: 73C3

Spectrum/model: **A11/neutron irradiation**
Spin: $S = 1/2$
g-value: $g = 2.0034$
References: 74L1, 74L4, 98L3

Spectrum/model: **AA16/AlH interstitial, hydrogen implantation**
Spin: $S = 1/2$
g-value: $g = 2.0035$
References: 97A3, 97G4, 98G2, 99G3, 02A1, 99M2

Spectrum/model: **Au(3)/Au center**
Spin: $S = 1/2$
g-value: $g = 2.0045$
References: 82H1

Spectrum/model: **RCA3/(Li-O-interstitial) complex, electron irradiation**
Spin: $S = 1/2$
g-value: $g = 2.0046$
References: 70G1, 71G1

Spectrum/model: **Y/plastic deformation**
Spin: $S = 1/2$
g-value: $g = 2.005$
References: 81S1, 85K2, 85O1, 86K3, 89S2, 00C1

Spectrum/model: **$(S_s)^+$**
Spin: $S = 1/2$
g-value: $g = 2.0054$
References: 65L1, 81G1, 83N1, 84G1, 84W1, 85G4, 88S3, 89G9, 92A3, 92S6

Spectrum/model: **T2/oxygen implantation**
Spin: $S = 1/2$
g-value: $g = 2.0054$
Remark: possibly identical to a
References: 86B3, 86H2

Spectrum/model: **a/amorphous Si**
Spin: $S = 1/2$
g-value: $g = 2.0055$
References: 61W4, 68D1, 68H1, 69B3, 70T1, 72B1, 73G1, 74L4, 75L1, 76B3, 77M1, 78H2, 85M1, 92Y1, 96M2, 98D2, 99U1, 00P1, 00V1

Spectrum/model: **$(Se_s)^+$**
Spin: $S = 1/2$
g-value: $g = 2.0057$
References: 81G1, 84G1, 84W1, 88S2, 89G9, 92S6

Spectrum/model: **$(Mn_s)^{2-}$**
Spin: $S = 5/2$
g-value: $g = 2.0058$
References: 60W3, 62L1

Spectrum/model: **surface**
Spin: $S = 1/2$
g-value: $g = 2.0061$
References: 54F1, 59F1

Spectrum/model: **N(1)**
Spin: $S = 1/2$
g-value: $g = 2.0061$
References: 72M1, 84S1

Spectrum/model: **$[(Mn_i)_4]^0$**
Spin: $S = 2$
g-value: $g = 2.0063$
Remark for more recent analysis with $S = 6$, see below
References: 59L1, 60W1, 62L1, 87K4, 88K1, 91K4, 93K2

Spectrum/model: **SL5/$(N_S)^0$**
Spin: $S = 1/2$
g-value: $g = 2.0065$
Remark: motionally averaged state observed at temperature $T > 150$ K
References: 82B1, 83M1, 84S1

Spectrum/model: **$(Mn_i)^{2+}$**
Spin: $S = 5/2$
g-value: $g = 2.0066$
References: 60W1, 60W3, 62L1

Spectrum/model: **S2/ion implantation**
Spin: $S = 1/2$
g-value: $g = 2.0069$
References: 67L2, 73B1, 00R1

Spectrum/model: **RCA4/(Li-interstitial) complex, electron irradiation**
Spin: $S = 1/2$
g-value: $g = 2.0090$
References: 70G1, 71G1

Spectrum/model: **$[(Mn_i)_4]^0$**
Spin: $S = 6$
g-value: $g = 2.009$
Remark for earlier analysis with $S = 2$, see above
References: 88K1, 93K2

Spectrum/model: **$(Mn_i)^-$**
Spin: $S = 1$
g-value: $g = 2.0104$
References: 60W1, 60W3, 62L1, 87K4

Spectrum/model: **$[(Mn_i)_4]^+$**
Spin: $S = 13/2$
g-value: $g = 2.011$
References: 01W1

Spectrum/model: **$(Mn_S)^+$**
Spin: $S = 1$
g-value: $g = 2.0259$
References: 60W3, 62L1

Spectrum/model: **$(Ni_i)^+$**
Spin: $S = 1/2$
g-value: $g = 2.026$
References: 62L1

Spectrum/model: **N(2)**
Spin: $S = 1/2$
g-value: $g = 2.041$
References: 72M1, 84S1

Spectrum/model: **$(Zn_S)^-$**
Spin: $S = 1/2$
g-value: $g = 2.050$
Remark: for other spectra of $(Zn_S)^-$, with $S = 3/2$, see p. 283
References: 61L2, 72G1

Spectrum/model: **$(Fe_i)^0$**
Spin: $S = 1$
g-value: $g = 2.0699$
References: 58L1, 59F1, 60L1, 60W1, 61L1, 62L1, 70B2, 75D1, 76B4, 77L2, 77G1, 78F1, 80M1, 80W1, 81W2, 83S2, 84G2, 85B2, 85G5, 86S2, 86W5, 89A2, 90S1, 92K2, 92K3, 92T1, 94G3, 94H5, 94T1, 95S9, 95T1, 97E1, 97T3, 98M2

Spectrum/model: **FeH**
Spin: $S = 1/2$
g-value: $g \approx 2.07$
References: 99T2, 02A1

Spectrum/model: **$(Cr_i)^0$**
Spin: $S = 1$
g-value: $g = 2.97$
References: 62L1

Spectrum/model: **$(Mn_i)^+$**
Spin: $S = 1$
g-value: $g = 3.01$
References: 62L1

Spectrum/model: **$(Mn_i)^0$**
Spin: $S = 1/2$
g-value: $g = 3.362$
References: 62L1, 85B2, 87K4

Spectrum/model: **$(Fe_i)^+$**
Spin: $S = 1/2$
g-value: $g = 3.524$
References: 60L1, 60W1, 61L1, 62L1, 85A1, 88A2, 88K3, 89A2, 90S1, 92T1, 94G3, 97E1, 97T3

Figures for 4.2.6

((Figs. 1-8, cited above, are already published in the respective chapter in vol. III/22b. So we will present here only the figure captions in order to allow an overview of the content of the figures. For full information (figure plus figure captions) we refer also to the respective documents in the enclosed CD-ROM.))

Fig. 1. Triclinic system. (a) Atomic model boron-vacancy complex in silicon, pointgroup 1. (b) Principal axes of the triclinic **g**-tensor. (c) Rotation pattern spectrum Si-G10, ***B*** in the ($0\bar{1}1$)-plane.

Fig. 2. Monoclinic-I system. (a) Atomic model divacancy in silicon, pointgroup $2_{[0\bar{1}1]}$/m. (b) Principal axes of the monoclinic-I **g**-tensor. (c) Rotation pattern spectrum Si-G6, ***B*** in the ($0\bar{1}1$)-plane.

Fig. 3. Monoclinic-II system. (a) Atomic model di-interstitial in silicon, pointgroup $2_{[100]}$. (b) Principal axes of the monoclinic-II **g**-tensor. (c) Rotation pattern spectrum Si-P6 (T = 200 K), ***B*** in the ($0\bar{1}1$)-plane.

Fig. 4. Orthorhombic-I system. (a) Atomic model oxygen-vacancy complex in silicon, pointgroup $2_{[100]}$mm. (b) Principal axes of the orthorhombic-I **g**-tensor. (c) Rotation pattern spectrum Si-B1, ***B*** in the ($0\bar{1}1$)-plane.

Fig. 5. Orthorhombic-II system. (a) Atomic model di-interstitial in silicon, pointgroup 222. (b) Principal axes of the orthorhombic-II **g**-tensor. (c) Rotation pattern spectrum Si-P6 (T = 315 K) , ***B*** in the ($0\bar{1}1$)-plane.

Fig. 6. Tetragonal system (a) Atomic model positive vacancy in silicon, point group $\bar{4}_{[100]}$2m. (b) Principal axes of the tetragonal **g**-tensor. (c) Rotation pattern spectrum Si-G1, ***B*** in the ($0\bar{1}1$)-plane.

Fig. 7. Trigonal system. (a) Atomic model nitrogen in silicon, pointgroup 3m. (b) Principal axes of the trigonal **g**-tensor. (c) Rotation pattern spectrum Si-SL5, ***B*** in the ($0\bar{1}1$)-plane.

Fig. 8. Cubic system. (a) Atomic model of sulfur in silicon, pointgroup $\bar{4}$3m. (b) Principal axes of the cubic **g**-tensor. (c) Rotation pattern spectrum Si:S^+, ***B*** in the ($0\bar{1}1$)-plane.

References for 4.2.6

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