Structure constants of the Lie Algebra:

$(0,\ e^{35},\ 0,\ 0.5e^{15},\ 0,\ (-0.5)e^{13})$

Symplectic form

$\omega = e^{12} + e^{34} + e^{56}$

Derivatives of $3-$forms

$d(e^{246}) = 0.5e^{1234} + 0.5e^{1256} + (-1)e^{3456}$

$d(e^{234}) = 0.5e^{1235}$

$d(e^{256}) = 0.5e^{1235}$

$d(e^{456}) = (-0.5)e^{1345}$

$d(e^{124}) = e^{1345}$

$d(e^{126}) = (-1)e^{1356}$

$d(e^{346}) = 0.5e^{1356}$

$Ker(d^3) \supset \{e^{123},\ e^{125},\ e^{134},\ e^{135},\ e^{136},\ e^{145},\ e^{146},\ e^{156},\ e^{235},\ e^{236},\ e^{245},\ e^{345},\ e^{356},\ \}$

Derivatives of $2-$forms

$d(e^{26}) = (-0.5)e^{123} + e^{356}$

$d(e^{24}) = 0.5e^{125} + (-1)e^{345}$

$d(e^{46}) = 0.5e^{134} + 0.5e^{156}$

$d(e^{12}) = (-1)e^{135}$

$d(e^{34}) = 0.5e^{135}$

$d(e^{56}) = 0.5e^{135}$

$Ker(d^2) \supset \{e^{13},\ e^{14},\ e^{15},\ e^{16},\ e^{23},\ e^{25},\ e^{35},\ e^{36},\ e^{45},\ \}$

$d\Lambda d$ of $3-$forms

$d\Lambda d(e^{246}) = (-1.5)e^{135}$

Primitive elements

$\omega \wedge e^{125} = e^{12345};\ \omega \wedge e^{345} = e^{12345};$

$\omega \wedge e^{126} = e^{12346};\ \omega \wedge e^{346} = e^{12346};$

$\omega \wedge e^{123} = e^{12356};\ \omega \wedge e^{356} = e^{12356};$

$\omega \wedge e^{124} = e^{12456};\ \omega \wedge e^{456} = e^{12456};$

$\omega \wedge e^{134} = e^{13456}$; $\omega \wedge e^{156} = e^{13456}$;

$\omega \wedge e^{234} = e^{23456}$; $\omega \wedge e^{256} = e^{23456}$;

$\omega \wedge e^{135} = \omega \wedge e^{136} = \omega \wedge e^{145} = \omega \wedge e^{146} = \omega \wedge e^{235} = \omega \wedge e^{236} = \omega \wedge e^{245} = \omega \wedge e^{246} = 0$.

Structure constants of the Lie Algebra:

$(0, \ e^{35}, \ 0, \ 2e^{15}, \ 0, \ e^{13})$

Symplectic form

$\omega = e^{12} + e^{34} + e^{56}$

Derivatives of $3-$forms

$d(e^{246}) = (-1)e^{1234} + 2e^{1256} + (-1)e^{3456}$

$d(e^{256}) = (-1)e^{1235}$

$d(e^{234}) = 2e^{1235}$

$d(e^{124}) = e^{1345}$

$d(e^{456}) = e^{1345}$

$d(e^{126}) = (-1)e^{1356}$

$d(e^{346}) = 2e^{1356}$

$Ker(d^3) \supset \{e^{123}, \ e^{125}, \ e^{134}, \ e^{135}, \ e^{136}, \ e^{145}, \ e^{146}, \ e^{156}, \ e^{235}, \ e^{236}, \ e^{245}, \ e^{345}, \ e^{356}, \ \}$

Derivatives of $2-$forms

$d(e^{26}) = e^{123} + e^{356}$

$d(e^{24}) = 2e^{125} + (-1)e^{345}$

$d(e^{46}) = (-1)e^{134} + 2e^{156}$

$d(e^{12}) = (-1)e^{135}$

$d(e^{56}) = (-1)e^{135}$

$d(e^{34}) = 2e^{135}$

$Ker(d^2) \supset \{e^{13}, \ e^{14}, \ e^{15}, \ e^{16}, \ e^{23}, \ e^{25}, \ e^{35}, \ e^{36}, \ e^{45}, \ \}$

$d\Lambda d$ of $3-$forms

$d\Lambda d(e^{246}) = (-6)e^{135}$

Primitive elements

$\omega \wedge e^{125} = e^{12345}; \ \omega \wedge e^{345} = e^{12345};$

$\omega \wedge e^{126} = e^{12346}; \ \omega \wedge e^{346} = e^{12346};$

$\omega \wedge e^{123} = e^{12356}; \ \omega \wedge e^{356} = e^{12356};$

$\omega \wedge e^{124} = e^{12456}; \ \omega \wedge e^{456} = e^{12456};$

$\omega \wedge e^{134} = e^{13456}; \ \omega \wedge e^{156} = e^{13456};$

$\omega \wedge e^{234} = e^{23456}; \ \omega \wedge e^{256} = e^{23456};$

$\omega \wedge e^{135} = \omega \wedge e^{136} = \omega \wedge e^{145} = \omega \wedge e^{146} = \omega \wedge e^{235} = \omega \wedge e^{236} = \omega \wedge e^{245} = \omega \wedge e^{246} = 0.$

Structure constants of the Lie Algebra:

$(0,\ e^{35},\ 0,\ (-1)e^{15},\ 0,\ (-2)e^{13})$

Symplectic form

$\omega = e^{12} + e^{34} + e^{56}$

Derivatives of $3-$forms

$d(e^{246}) = 2e^{1234} + (-1)e^{1256} + (-1)e^{3456}$

$d(e^{234}) = (-1)e^{1235}$

$d(e^{256}) = 2e^{1235}$

$d(e^{456}) = (-2)e^{1345}$

$d(e^{124}) = e^{1345}$

$d(e^{126}) = (-1)e^{1356}$

$d(e^{346}) = (-1)e^{1356}$

$Ker(d^3) \supset \{e^{123},\ e^{125},\ e^{134},\ e^{135},\ e^{136},\ e^{145},\ e^{146},\ e^{156},\ e^{235},\ e^{236},\ e^{245},\ e^{345},\ e^{356},\ \}$

Derivatives of $2-$forms

$d(e^{26}) = (-2)e^{123} + e^{356}$

$d(e^{24}) = (-1)e^{125} + (-1)e^{345}$

$d(e^{46}) = 2e^{134} + (-1)e^{156}$

$d(e^{12}) = (-1)e^{135}$

$d(e^{34}) = (-1)e^{135}$

$d(e^{56}) = 2e^{135}$

$Ker(d^2) \supset \{e^{13},\ e^{14},\ e^{15},\ e^{16},\ e^{23},\ e^{25},\ e^{35},\ e^{36},\ e^{45},\ \}$

$d\Lambda d$ of $3-$forms

$d\Lambda d(e^{246}) = (-6)e^{135}$

Primitive elements

$\omega \wedge e^{125} = e^{12345};\ \omega \wedge e^{345} = e^{12345};$

$\omega \wedge e^{126} = e^{12346};\ \omega \wedge e^{346} = e^{12346};$

$\omega \wedge e^{123} = e^{12356};\ \omega \wedge e^{356} = e^{12356};$

$\omega \wedge e^{124} = e^{12456};\ \omega \wedge e^{456} = e^{12456};$

$\omega \wedge e^{134} = e^{13456};\ \omega \wedge e^{156} = e^{13456};$

$\omega \wedge e^{234} = e^{23456};\ \omega \wedge e^{256} = e^{23456};$

$\omega \wedge e^{135} = \omega \wedge e^{136} = \omega \wedge e^{145} = \omega \wedge e^{146} = \omega \wedge e^{235} = \omega \wedge e^{236} = \omega \wedge e^{245} = \omega \wedge e^{246} = 0.$

Structure constants of the Lie Algebra:

$(0, \ e^{35}, \ 0, \ 10e^{15}, \ 0, \ 9e^{13})$

Symplectic form

$\omega = e^{12} + e^{34} + e^{56}$

Derivatives of $3-$forms

$d(e^{246}) = (-9)e^{1234} + 10e^{1256} + (-1)e^{3456}$

$d(e^{256}) = (-9)e^{1235}$

$d(e^{234}) = 10e^{1235}$

$d(e^{124}) = e^{1345}$

$d(e^{456}) = 9e^{1345}$

$d(e^{126}) = (-1)e^{1356}$

$d(e^{346}) = 10e^{1356}$

$Ker(d^3) \supset \{e^{123}, \ e^{125}, \ e^{134}, \ e^{135}, \ e^{136}, \ e^{145}, \ e^{146}, \ e^{156}, \ e^{235}, \ e^{236}, \ e^{245}, \ e^{345}, \ e^{356}, \ \}$

Derivatives of $2-$forms

$d(e^{26}) = 9e^{123} + e^{356}$

$d(e^{24}) = 10e^{125} + (-1)e^{345}$

$d(e^{46}) = (-9)e^{134} + 10e^{156}$

$d(e^{56}) = (-9)e^{135}$

$d(e^{12}) = (-1)e^{135}$

$d(e^{34}) = 10e^{135}$

$Ker(d^2) \supset \{e^{13}, \ e^{14}, \ e^{15}, \ e^{16}, \ e^{23}, \ e^{25}, \ e^{35}, \ e^{36}, \ e^{45}, \ \}$

$d\Lambda d$ of $3-$forms

$d\Lambda d(e^{246}) = (-182)e^{135}$

Primitive elements

$\omega \wedge e^{125} = e^{12345}; \ \omega \wedge e^{345} = e^{12345};$

$\omega \wedge e^{126} = e^{12346}; \ \omega \wedge e^{346} = e^{12346};$

$\omega \wedge e^{123} = e^{12356}; \ \omega \wedge e^{356} = e^{12356};$

$\omega \wedge e^{124} = e^{12456}; \ \omega \wedge e^{456} = e^{12456};$

$\omega \wedge e^{134} = e^{13456}$; $\omega \wedge e^{156} = e^{13456}$;

$\omega \wedge e^{234} = e^{23456}$; $\omega \wedge e^{256} = e^{23456}$;

$\omega \wedge e^{135} = \omega \wedge e^{136} = \omega \wedge e^{145} = \omega \wedge e^{146} = \omega \wedge e^{235} = \omega \wedge e^{236} = \omega \wedge e^{245} = \omega \wedge e^{246} = 0$.

Structure constants of the Lie Algebra:

$(0,\ (-1)e^{13} + e^{35},\ 0,\ e^{15},\ 0,\ 0.5e^{35})$

Symplectic form

$\omega = e^{12} + e^{34} + e^{56}$

Derivatives of $3-$forms

$d(e^{126}) = 0.5e^{1235} + (-1)e^{1356}$

$d(e^{234}) = e^{1235}$

$d(e^{246}) = e^{1256} + (-1)e^{1346} + (-0.5)e^{2345} + (-1)e^{3456}$

$d(e^{245}) = (-1)e^{1345}$

$d(e^{146}) = (-0.5)e^{1345}$

$d(e^{124}) = e^{1345}$

$d(e^{256}) = (-1)e^{1356}$

$d(e^{346}) = e^{1356}$

$Ker(d^3) \supset \{e^{123},\ e^{125},\ e^{134},\ e^{135},\ e^{136},\ e^{145},\ e^{156},\ e^{235},\ e^{236},\ e^{345},\ e^{356},\ e^{456},\ \}$

Derivatives of $2-$forms

$d(e^{24}) = e^{125} + (-1)e^{134} + (-1)e^{345}$

$d(e^{12}) = (-1)e^{135}$

$d(e^{25}) = (-1)e^{135}$

$d(e^{16}) = (-0.5)e^{135}$

$d(e^{34}) = e^{135}$

$d(e^{26}) = (-1)e^{136} + (-0.5)e^{235} + e^{356}$

$d(e^{46}) = e^{156} + 0.5e^{345}$

$Ker(d^2) \supset \{e^{13},\ e^{14},\ e^{15},\ e^{23},\ e^{35},\ e^{36},\ e^{45},\ e^{56},\ \}$

$d\Lambda d$ of $3-$forms

$d\Lambda d(e^{246}) = (-1)e^{135}$

Primitive elements

$\omega \wedge e^{125} = e^{12345}; \ \omega \wedge e^{345} = e^{12345};$

$\omega \wedge e^{126} = e^{12346}; \ \omega \wedge e^{346} = e^{12346};$

$\omega \wedge e^{123} = e^{12356}; \ \omega \wedge e^{356} = e^{12356};$

$\omega \wedge e^{124} = e^{12456}; \ \omega \wedge e^{456} = e^{12456};$

$\omega \wedge e^{134} = e^{13456}; \ \omega \wedge e^{156} = e^{13456};$

$\omega \wedge e^{234} = e^{23456}; \ \omega \wedge e^{256} = e^{23456};$

$\omega \wedge e^{135} = \omega \wedge e^{136} = \omega \wedge e^{145} = \omega \wedge e^{146} = \omega \wedge e^{235} = \omega \wedge e^{236} = \omega \wedge e^{245} = \omega \wedge e^{246} = 0.$