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

Symplectic form

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

Derivatives of 3-forms

$$\begin{split} d(e^{246}) &= (1.0 - \lambda)e^{1234} + \lambda \ e^{1256} + (-1.0)e^{3456} \\ d(e^{234}) &= \lambda \ e^{1235} \\ d(e^{256}) &= (1.0 - \lambda)e^{1235} \\ d(e^{124}) &= e^{1345} \\ d(e^{456}) &= (-1 + \lambda)e^{1345} \\ d(e^{456}) &= (-1.0)e^{1356} \\ d(e^{346}) &= \lambda \ e^{1356} \end{split}$$

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

Derivatives of 2-forms

$$\begin{split} d(e^{26}) &= (-1.0 + \lambda)e^{123} + e^{356} \\ d(e^{24}) &= \lambda \ e^{125} + (-1.0)e^{345} \\ d(e^{46}) &= (1.0 - \lambda)e^{134} + \lambda \ e^{156} \\ d(e^{12}) &= (-1.0)e^{135} \\ d(e^{34}) &= \lambda \ e^{135} \\ d(e^{56}) &= (1.0 - \lambda)e^{135} \\ Ker(d^2) \supset \{e^{13}, \ e^{14}, \ e^{15}, \ e^{16}, \ e^{23}, \ e^{25}, \ e^{35}, \ e^{36}, \ e^{45}, \} \end{split}$$

$d\Lambda d$ of 3-forms

$$d\Lambda d(e^{246}) = (-1.0 + (1.0 - \lambda)(-1 + \lambda) - \lambda^2)e^{135}$$

$$\begin{split} &\omega \wedge e^{125} = e^{12345}; \ \omega \wedge e^{345} = e^{12345}; \\ &\omega \wedge e^{126} = e^{12346}; \ \omega \wedge e^{346} = e^{12346}; \\ &\omega \wedge e^{123} = e^{12356}; \ \omega \wedge e^{356} = e^{12356}; \\ &\omega \wedge e^{124} = e^{12456}; \ \omega \wedge e^{456} = e^{12456}; \end{split}$$

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\begin{split} &\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. \end{split}
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$$(0, (-1.0)e^{13} + ((2.0)\frac{\lambda}{1+\lambda^2})e^{35}, 0, ((2.0)\frac{\lambda}{1+\lambda^2})e^{15}, 0, (\frac{1}{1+\lambda^2})e^{35})$$

Symplectic form

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

Derivatives of 3-forms

$$d(e^{126}) = (\frac{1}{1+\lambda^2})e^{1235} + (-(2.0)\frac{\lambda}{1+\lambda^2})e^{1356}$$
$$d(e^{234}) = ((2.0)\frac{\lambda}{1+\lambda^2})e^{1235}$$

$$d(e^{246}) = ((2.0) \frac{\lambda}{1+\lambda^2}) e^{1256} + (-1.0) e^{1346} + (-\frac{1}{1+\lambda^2}) e^{2345} + (-(2.0) \frac{\lambda}{1+\lambda^2}) e^{3456}$$

$$d(e^{124}) = ((2.0)\frac{\lambda}{1+\lambda^2})e^{1345}$$

$$d(e^{146}) = (-\frac{1}{1+\lambda^2})e^{1345}$$

$$d(e^{245}) = (-1.0)e^{1345}$$

$$d(e^{256}) = (-1.0)e^{1356}$$

$$d(e^{346}) = ((2.0)\frac{\lambda}{1+\lambda^2})e^{1356}$$

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

Derivatives of 2-forms

$$d(e^{24}) = ((2.0)\tfrac{\lambda}{1+\lambda^2})e^{125} + (-1.0)e^{134} + (-(2.0)\tfrac{\lambda}{1+\lambda^2})e^{345}$$

$$d(e^{12}) = (-(2.0)\tfrac{\lambda}{1+\lambda^2})e^{135}$$

$$d(e^{16}) = (-\frac{1}{1+\lambda^2})e^{135}$$

$$d(e^{25}) = (-1.0)e^{135}$$

$$d(e^{34}) = ((2.0)\frac{\lambda}{1+\lambda^2})e^{135}$$

$$d(e^{26}) = (-1.0)e^{136} + (-\frac{1}{1+\lambda^2})e^{235} + ((2.0)\frac{\lambda}{1+\lambda^2})e^{356}$$

$$d(e^{46}) = ((2.0)\frac{\lambda}{1+\lambda^2})e^{156} + (\frac{1}{1+\lambda^2})e^{345}$$

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

$d\Lambda d$ of 3-forms

$$d\Lambda d(e^{246}) = (-(8.0)\frac{\lambda^2}{1+\lambda^{22}} + 2\frac{1}{1+\lambda^2})e^{135}$$

$$\begin{split} &\omega \wedge e^{125} = e^{12345}; \ \omega \wedge e^{345} = e^{12345}; \\ &\omega \wedge e^{126} = e^{12346}; \ \omega \wedge e^{346} = e^{12346}; \\ &\omega \wedge e^{123} = e^{12356}; \ \omega \wedge e^{356} = e^{12356}; \\ &\omega \wedge e^{124} = e^{12456}; \ \omega \wedge e^{456} = e^{12456}; \\ &\omega \wedge e^{134} = e^{13456}; \ \omega \wedge e^{156} = e^{13456}; \\ &\omega \wedge e^{234} = e^{23456}; \ \omega \wedge e^{256} = e^{23456}; \\ &\omega \wedge e^{135} = \omega \wedge e^{136} = \omega \wedge e^{145} = \omega \wedge e^{146} = \omega \wedge e^{235} = \omega \wedge e^{236} = \omega \wedge e^{245} = \\ &\omega \wedge e^{246} = 0. \end{split}$$

$$(0,\; (-1.0)e^{13}+((2.0)\tfrac{\lambda}{y})e^{35},\; 0,\; ((2.0)\tfrac{\lambda}{y})e^{15},\; 0,\; (\tfrac{1}{y})e^{35})$$

Symplectic form

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

Derivatives of 3-forms

$$\begin{split} d(e^{126}) &= (\frac{1}{y})e^{1235} + (-(2.0)\frac{\lambda}{y})e^{1356} \\ d(e^{234}) &= ((2.0)\frac{\lambda}{y})e^{1235} \\ d(e^{246}) &= ((2.0)\frac{\lambda}{y})e^{1256} + (-1.0)e^{1346} + (-\frac{1}{y})e^{2345} + (-(2.0)\frac{\lambda}{y})e^{3456} \\ d(e^{124}) &= ((2.0)\frac{\lambda}{y})e^{1345} \\ d(e^{146}) &= (-\frac{1}{y})e^{1345} \\ d(e^{245}) &= (-1.0)e^{1345} \\ d(e^{256}) &= (-1.0)e^{1356} \end{split}$$

$$a(e^{-}) = (-1.0)e^{-}$$

$$d(e^{346}) = ((2.0)\frac{\lambda}{y})e^{1356}$$

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

Derivatives of 2-forms

$$\begin{split} &d(e^{24}) = ((2.0)\frac{\lambda}{y})e^{125} + (-1.0)e^{134} + (-(2.0)\frac{\lambda}{y})e^{345} \\ &d(e^{12}) = (-(2.0)\frac{\lambda}{y})e^{135} \\ &d(e^{16}) = (-\frac{1}{y})e^{135} \\ &d(e^{25}) = (-1.0)e^{135} \\ &d(e^{34}) = ((2.0)\frac{\lambda}{y})e^{135} \\ &d(e^{26}) = (-1.0)e^{136} + (-\frac{1}{y})e^{235} + ((2.0)\frac{\lambda}{y})e^{356} \\ &d(e^{46}) = ((2.0)\frac{\lambda}{y})e^{156} + (\frac{1}{y})e^{345} \end{split}$$

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

$d\Lambda d$ of 3-forms

$$d\Lambda d(e^{246}) = (-(8.0)\tfrac{\lambda^2}{yy} + 2\tfrac{1}{y})e^{135}$$

$$\begin{split} &\omega \wedge e^{125} = e^{12345}; \ \omega \wedge e^{345} = e^{12345}; \\ &\omega \wedge e^{126} = e^{12346}; \ \omega \wedge e^{346} = e^{12346}; \\ &\omega \wedge e^{123} = e^{12356}; \ \omega \wedge e^{356} = e^{12356}; \\ &\omega \wedge e^{124} = e^{12456}; \ \omega \wedge e^{456} = e^{12456}; \\ &\omega \wedge e^{134} = e^{13456}; \ \omega \wedge e^{156} = e^{13456}; \\ &\omega \wedge e^{234} = e^{23456}; \ \omega \wedge e^{256} = e^{23456}; \\ &\omega \wedge e^{135} = \omega \wedge e^{136} = \omega \wedge e^{145} = \omega \wedge e^{146} = \omega \wedge e^{235} = \omega \wedge e^{236} = \omega \wedge e^{245} = \\ &\omega \wedge e^{246} = 0. \end{split}$$

$$(0, (-1.0)e^{13} + e^{35}, 0, e^{15}, 0, 0.5 e^{35})$$

Symplectic form

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

Derivatives of 3-forms

$$d(e^{126}) = 0.5 e^{1235} + (-1.0)e^{1356}$$

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

$$d(e^{246}) = e^{1256} + (-1.0)e^{1346} + (-0.5)e^{2345} + (-1.0)e^{3456}$$

$$d(e^{245}) = (-1.0)e^{1345}$$

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

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

$$d(e^{256}) = (-1.0)e^{1356}$$

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

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

Derivatives of 2-forms

$$d(e^{24}) = e^{125} + (-1.0)e^{134} + (-1.0)e^{345}$$

$$d(e^{12}) = (-1.0)e^{135}$$

$$d(e^{25}) = (-1.0)e^{135}$$

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

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

$$d(e^{26}) = (-1.0)e^{136} + (-0.5)e^{235} + e^{356}$$

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

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

$d\Lambda d$ of 3-forms

$$d\Lambda d(e^{246}) = (-1.0)e^{135}$$

$$\begin{split} &\omega \wedge e^{125} = e^{12345}; \ \omega \wedge e^{345} = e^{12345}; \\ &\omega \wedge e^{126} = e^{12346}; \ \omega \wedge e^{346} = e^{12346}; \\ &\omega \wedge e^{123} = e^{12356}; \ \omega \wedge e^{356} = e^{12356}; \\ &\omega \wedge e^{124} = e^{12456}; \ \omega \wedge e^{456} = e^{12456}; \\ &\omega \wedge e^{134} = e^{13456}; \ \omega \wedge e^{156} = e^{13456}; \\ &\omega \wedge e^{234} = e^{23456}; \ \omega \wedge e^{256} = e^{23456}; \\ &\omega \wedge e^{135} = \omega \wedge e^{136} = \omega \wedge e^{145} = \omega \wedge e^{146} = \omega \wedge e^{235} = \omega \wedge e^{236} = \omega \wedge e^{245} = \\ &\omega \wedge e^{246} = 0. \end{split}$$