Structure constants of the Lie Algebra:

$(0,0)(0,0)(0,0)(15,1)(0,0)(13,1)$

Symplectic form

$\omega = 1 \cdot e^{12} + 1 \cdot e^{34} + 1 \cdot e^{56} +$

Derivatives

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

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

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

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

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

$d(e^{24}) = e^{125}$

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

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

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

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

$d\Lambda d(e^{246}) = 2e^{135}$