

$$S = \frac{1}{(2\pi)^{4k+1}} \int \left( \frac{1}{2} dP \wedge \star_\eta dP - 2Q \wedge dP + (Q + J) \wedge \tilde{M}(Q + J) + 2Q \wedge J - \frac{1}{2} J \wedge \star_\eta J \right) ;.$$