Formulae ofunpublished preprint

$$H = \frac{P^2 + W^2(q)}{2} + \theta_1 \theta_2 W'(q) ,$$

whre W(q) is suprepotential.

This Hamiltonian may be replaced by

$$\bar{H}=Q_1$$
,

where

$$Q_1 = -p\theta_2 + W(q)\theta_1, \ Q_2 = p\theta_1 + W(q)\theta_2.$$

Poisson bracket:

$$\{p,q\}_0 = 1, \{\theta_\alpha,\theta_\beta\}_0 = \delta_{\alpha\beta}, \{p,\theta\}_0 = 0, \{q,\theta\}_0 = 0, \{q,\theta\}_0$$

We try to find $[]'_1$ such that

$$\dot{f} = \{f, H\} = [f, H].$$

In the special case If W = q, then []' takes the canonical form []' = [], where

$$[p, \theta_1] = [q, \theta_2] = 1$$
, $[p, \theta_2] = [q, \theta_1] = 0$, $[\theta, \theta] = 0$, $[\theta$

and the superlagebra of integrals with respect to even bracket

$$\{Q_\alpha,Q_\beta\}=H\delta_{\alpha\beta}\,,\quad \{Q_\alpha,F\}=\delta_{\alpha\beta}Q_\beta\,,\quad F=\frac{Q_1Q_2}{2H}=\theta_1\theta_2\,.$$

is the 'same' with respect to the odd bracket:

$$\{\bar{Q}_{\alpha}, \bar{Q}_{\beta}\} = \bar{H}\delta_{\alpha\beta}\,,\quad \{\bar{Q}_{\alpha}, \bar{F}\} = \delta_{\alpha\beta}\bar{Q}_{\beta}\,,$$

where

$$\bar{F} = -\frac{i}{2}Q_2, \bar{Q}_1 = H, \bar{Q}_2 = i(2F - H)$$