$$(\sqrt{2})$$

$$= \frac{\partial^{2}}{\partial q_{i}q_{j}} = \frac{1}{|q_{i}-q_{i}|^{3}}$$

$$= \sqrt{2}$$

$$(\sqrt{q_{i}-q_{i}})^{2}$$

$$= \sqrt{2}$$

$$\sqrt{2}$$

$$\sqrt{q_{i}q_{j}} = \sqrt{2}$$

$$\sqrt{2}$$

$$\sqrt{q_{i}q_{j}} = \sqrt{2}$$

$$\sqrt{2}$$

$$\sqrt{q_{i}q_{j}} = \sqrt{2}$$

$$\sqrt{2}$$

$$\sqrt{q_{i}q_{j}} = \sqrt{2}$$

$$\sqrt{2}$$

$$\sqrt$$

Démage: (2) 
$$V(q+\sigma G)-2V(G)+V(G-\sigma G)$$

$$\sim G^{T}\nabla^{2}VG\sigma^{2}$$

$$+O(\sigma^{4})$$

(Galéatoire)

 $+W(q) \cdot 66$  $+\frac{976}{2}V^{2}VG + O(0^{3})$ 

Calulu N-2

Everyle Mod ( O( Ath) Option renormalisée: as 15  $Vq)z(q^2-1)^2$ 

Il délargage de fonts d'en. no enficée

HGMPM)

$$A P = 72VGM)PM$$
 $A P = 72VGM)PM$ 
 $A P = 72VGM$ 
 $A P =$ 

 $\frac{1}{a_1b} = \frac{1}{a_1b_1}$   $\frac{1}{a_1b_2} = \frac{1}{a_1b_2}$   $\frac{1}{a_1b_2} = \frac{1}{a_1b_2}$   $\frac{1}{a_1b_2} = \frac{1}{a_1b_2}$ => varial ( ( )

$$\begin{array}{lll}
 & = & \text{Id} \\
 & = & \text{Id$$

$$\int \nabla H_3 = \begin{pmatrix} + \sqrt{\rho} \cdot i_3 \\ - \nabla_q \cdot H_3 \end{pmatrix} \qquad \rho = \nabla^2 (\partial_i \vee) \rho$$

 $\nabla_{1}H_{3} = \frac{1}{6} \nabla^{2}V \cdot P$   $\nabla_{2}H_{3} = -\frac{1}{12} \nabla^{2}V \cdot \nabla V$   $\nabla_{3}H_{3} = -\frac{1}{12} \nabla^{3}V \cdot P \cdot P$ 

On doit trower  $\{1, (qp) = 1 \}$   $\{1, (q$ 1D - verfur sealing /t m