$$\hbar^{\blacktriangledown}_{\infty}\ \underbrace{\overset{\hbar}{\underset{-}{}}\triangle\ \overbrace{\mathbb{R}^n \times^{\in}_{n} \mathbb{R}^n}}\ \ni\ A : \dot{A}$$

$$d\ast\mathbb{H} - \underbrace{\dot{A} \times \ast\mathbb{H} - (-1)^{n}\ast\mathbb{H} \times \dot{A}} = 0$$

$$d\ast{}_i\mathbb{H}^j - \underbrace{\dot{A}_i^{\,k} \times \ast{}_k\mathbb{H}^j - (-1)^{n}\ast{}_i\mathbb{H}^k \times \dot{A}_k^{\,j}} = 0$$

$$\mathcal{L}_{A}\dot{A} \ni \operatorname{tr}\ \dot{A} \times \overbrace{d\ast\mathbb{H} - \underbrace{\dot{A} \times \ast\mathbb{H} - (-1)^{n}\ast\mathbb{H} \times \dot{A}}}$$

$$\mathcal{L}_{A}\dot{A} = {}_i\mathbb{H}^j \curlywedge \overbrace{d\dot{A}_j^{\,i} - \underbrace{\dot{A}_j^{\,k} \times \dot{A}_k^{\,i} + \dot{A}_j^{\,k} \times \dot{A}_k^{\,i}}} \ni - \dot{A}_j^{\,k} \times \dot{A}_k^{\,i} \times \underbrace{\ast{}_i\mathbb{H}^j} + \dot{A}_j^{\,i} \times \underbrace{d\ast{}_i\mathbb{H}^j} - \dot{A}_j^{\,k} \times \dot{A}_k^{\,i} \times \underbrace{\ast{}_i\mathbb{H}^j}$$

$$= (-1)^{n-1}\ \dot{A}_k^{\,i} \times \ast{}_i\mathbb{H}^j \times \dot{A}_j^{\,k} + \dot{A}_j^{\,i} \times \underbrace{d\ast{}_i\mathbb{H}^j} - \dot{A}_j^{\,k} \times {}_k\underbrace{\dot{A} \times \ast\mathbb{H}}^{j}$$

$$= (-1)^{n-1}\ \dot{A}_k^{\,i} \times {}_i\underbrace{\ast\mathbb{H} \times \dot{A}}^{k} + \dot{A}_j^{\,i} \times \underbrace{d\ast{}_i\mathbb{H}^j} - \dot{A}_j^{\,k} \times {}_k\underbrace{\dot{A} \times \ast\mathbb{H}}^{j}$$