APPLICATIONS IN CLASSICAL MECHANICS

First representation of non-Hamiltonian systems with an IsoAction Principle

$$\hat{\delta}\hat{\mathbf{A}} = \hat{\delta}\int_{\mathbf{t_1}}^{\mathbf{t_2}} (\hat{\mathbf{p}}_{\mathbf{k}} \hat{\times} \hat{\mathbf{d}}\hat{\mathbf{r}}^{\mathbf{k}} - \hat{\mathbf{H}} \hat{\times} \hat{\mathbf{d}}\hat{\mathbf{t}}) =$$

$$= \hat{\delta}\int_{\mathbf{t_1}}^{\mathbf{t_2}} [\mathbf{p}_{\mathbf{k}} \times \hat{\mathbf{T}}_{\mathbf{i}}^{\mathbf{k}}(\mathbf{t}, \mathbf{r}, \mathbf{p}, ...) \times \hat{\mathbf{d}}\hat{\mathbf{r}}^{\mathbf{i}} - \hat{\mathbf{H}} \times \hat{\mathbf{T}}_{\hat{\mathbf{t}}} \times \mathbf{d}\hat{\mathbf{t}}] = \mathbf{0}$$