

$$J(M:N) = \{x \in M\} \times \{y \in N\} \times \frac{\underline{M}_x \xrightarrow{z} \underline{N}_y}{\underline{z}\pi = /}$$

$$J(M:N) \xrightarrow{\mathcal{L}} \mathbb{R}$$

$$\text{field } M \xrightarrow[\text{diff}]{f} N$$

$$x \in M \xrightarrow{Jf} J(M:N) \ni x: {}^x f: {}^x f$$

$$Jf \times \mathcal{L} \in \overset{M}{\Delta_{\infty}} \mathbb{R} \xleftarrow{Jf \times} J(M:N) \underset{\Delta_{\infty}}{\mathbb{R}} \ni \mathcal{L}$$

$$\mathbb{R} \longleftarrow \overset{M}{\int} \overset{M}{\Delta_{\infty}} \mathbb{R}$$

$$S(f) = \int \overset{M}{Jf \times \mathcal{L}}$$

$$\text{motion } \delta_{\alpha} \mathcal{L} = \partial_{\mu} \delta_{\alpha}^{\mu} \mathcal{L}$$