

$$\int \left(\mathcal{L}^1 \frac{x_1}{r} + \mathcal{L}^2 \frac{x_2}{r} + \mathcal{L}^3 \frac{x_3}{r} \right) df = 0 \quad \text{für } \xi \text{ außerhalb von } x_4$$

Gesetz

$$\mathcal{L}^0 = g^{ik} \Gamma_{ik}^{\alpha} - g^{i\alpha} \Gamma_{i\alpha}^k \quad \text{symm.}$$

$$g^{ik} | \Gamma_{ik}^{\alpha} = \Gamma_{ik}^{\alpha} \xi^{\alpha, t} - \Gamma_{tk}^{\alpha} \xi^{\alpha, i} - \Gamma_{it, k}^{\alpha} \xi^{\alpha, k} - \xi^{\alpha, i k} - \Gamma_{ik, t}^{\alpha} \xi^{\alpha, t}$$

$$- g^{i\alpha} | \Gamma_{i\alpha}^k = - \Gamma_{tk}^{\alpha} \xi^{\alpha, i} - \xi^{\alpha, i k} - \Gamma_{ik, t}^{\alpha} \xi^{\alpha, t}$$

Wenn Feld ~~statisch~~, verschwindet letztes Feld sei statisch

$$\frac{1}{r} | \mathcal{L}^2 = g^{ik} \Gamma_{ik}^{\alpha} \xi^{\alpha, t} - g^{ik} \Gamma_{tk}^{\alpha} \xi^{\alpha, i} - g^{i\alpha} \Gamma_{i\alpha}^k \xi^{\alpha, k} - \xi^{\alpha, i k} g^{i\alpha} - \Gamma_{ik, t}^{\alpha} \xi^{\alpha, t} g^{i\alpha}$$

$$+ g^{i\alpha} \Gamma_{t\alpha}^k \xi^{\alpha, i} + g^{i\alpha} \xi^{\alpha, k} + \Gamma_{i\alpha}^k \xi^{\alpha, t} g^{i\alpha}$$

Wählen in der Umgebung der Integrationsfläche $\xi^{\alpha} = P(r) x_{\alpha}$

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