

$$\int_{Av} = \int_{av} \left(\frac{3}{32^{2}}\right)^{n} \left(\frac{3}{33^{2}}\right)^{k} = M^{n} \left(\frac{3}{33^{2}}\right)^{n} \left(\frac{3}{33^{2}}\right)^{k} \int_{av}^{av} \int_{av}^{bv} \int_{av}^{av} \int_{av}^{bv} \int_{$$

m ∈ = 19 dx'n... dxm. n d31 n... d3m. $dx^{1} \wedge \cdots dx^{m_{1}} = \frac{1}{N} n^{1} \wedge \cdots \wedge n^{m_{1}}$ FGIX n'1 ... Anmi A E = E 当然,我们还要证明: dx' n... n dx m = 1 n' n... n m' where $dx^{\alpha} \mapsto n^{-1}$ Schmidt

EXR

and $\in N^2 = \det \{ \in N^{\alpha \beta} N^{\beta \beta} \}$ $\int_{ab} n^{\alpha a} n^{\beta b} = \int_{ab} \lambda^{\alpha b} (dx^b)^{\alpha b}$ $\lambda^{\beta \delta} (dx^{\delta})^{b}$ Ars where $dx^{\alpha} \mapsto n^{-1}$ where $dx^{\alpha} \mapsto n^{\alpha}$ assume: $n^{\alpha} = \sum_{\beta} \lambda^{\alpha\beta} dx^{\beta}$ $N^{\alpha\beta} = \epsilon^{\beta} n^{\beta} a \left(\frac{\partial}{\partial x^{\alpha}}\right)^{\alpha} = g^{\beta \delta} \lambda^{\alpha \delta} \lambda^{\beta \delta}$ $= \epsilon_{\beta} y_{\beta, \alpha} (q x_{\beta})^{\alpha} \left(\frac{3x_{\alpha}}{3} \right)_{\alpha} = (\epsilon_{\alpha}) \delta_{\alpha\beta}$ $= \epsilon^{p} \lambda^{p} \alpha \qquad \qquad \lambda \cdot \epsilon^{q} \gamma^{p} \cdot \lambda^{T} = \epsilon^{n}$ {Nap} = diag (e' ... emi) · 1 EXNAXNBY = N. ding (el...y.NT $= \lambda T \cdot \operatorname{diag} \{ e^{1} \cdots \}^{3} \cdot \lambda$ $= \lambda T \cdot \operatorname{diag} \{ e^{1} \cdots \} \cdot \lambda$ 所以 N= det A $\mathbf{L} \mathbf{A} \qquad \mathbf{n}^{1} \wedge \cdots \wedge \mathbf{n}^{m_{1}} = \lambda^{1} \alpha_{1} \left(d \mathbf{x}^{\alpha_{1}} \right) \wedge \cdots \wedge \lambda^{m_{1}} \alpha_{m_{1}} d \mathbf{x}^{\alpha_{m_{1}}}$ = Exi... ami xldi ... xmi ami dx 1... x dx mi = $\det \lambda \, dx' \wedge \cdot \cdot \, dx^{m_1}$ {4 iT