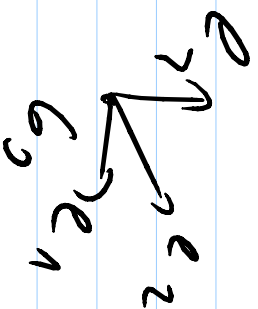
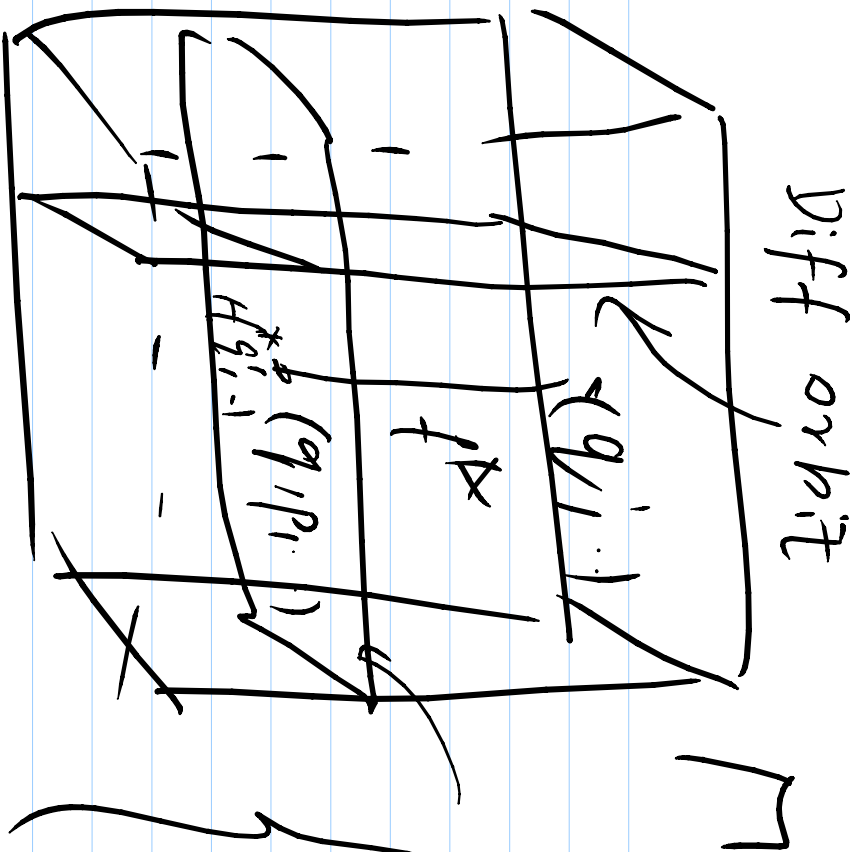


# The gausse fixing formulation



$$\text{fix } (Z^T) \mid Z^T (g_0) = 0 \quad \Sigma - 3 \text{ dof}$$

$$\partial_I = e_I \mid g_0 \quad Z^T = r \cos \varphi \sin \theta$$



$$\left\{ \begin{array}{l} Y_q^r(\delta) = r(\epsilon) \\ Y_q^x(\epsilon) = \theta^A(\epsilon) \end{array} \right.$$

$$Q_{KB}(v, \theta) = f^x q'_{KB}(v, \theta) \quad |||$$

$$\int_{(q_1, p_1, \dots)} q_{rv} = \Phi$$

$$q_{rx} = 0$$

Diff, generated by  $X^I \mathcal{J}_I$  s.t.

Periodical Diff

$$N^I_{1,3}(b_0) = \begin{bmatrix} * & 0 \\ * & * \\ * & * \end{bmatrix}$$

$$X^I \mathcal{J}_I \quad X_{n,r} = 0 = X(r; A)$$

$$\left\{ \begin{array}{l} \mathcal{J}_n X^n = 0 \\ \mathcal{J}_n X^k = -\mathcal{J}^{A|B} \mathcal{J}_B X^n \end{array} \right\} \begin{array}{l} X^I(b_0) \\ X^I_{1,3}(b_0) \text{ s.t.} \end{array} \quad \Big| \quad \mathcal{J}$$

$$X^I_{1,3}(b_0) = -X_{3,1}^I(b_0)$$

right notation:  $X^I(G_0) = \emptyset$

$$r' = r, \quad \Theta^{IA} = R^A \Theta^B$$

transitions:  $X^I_{1j}(G_0) = \emptyset$

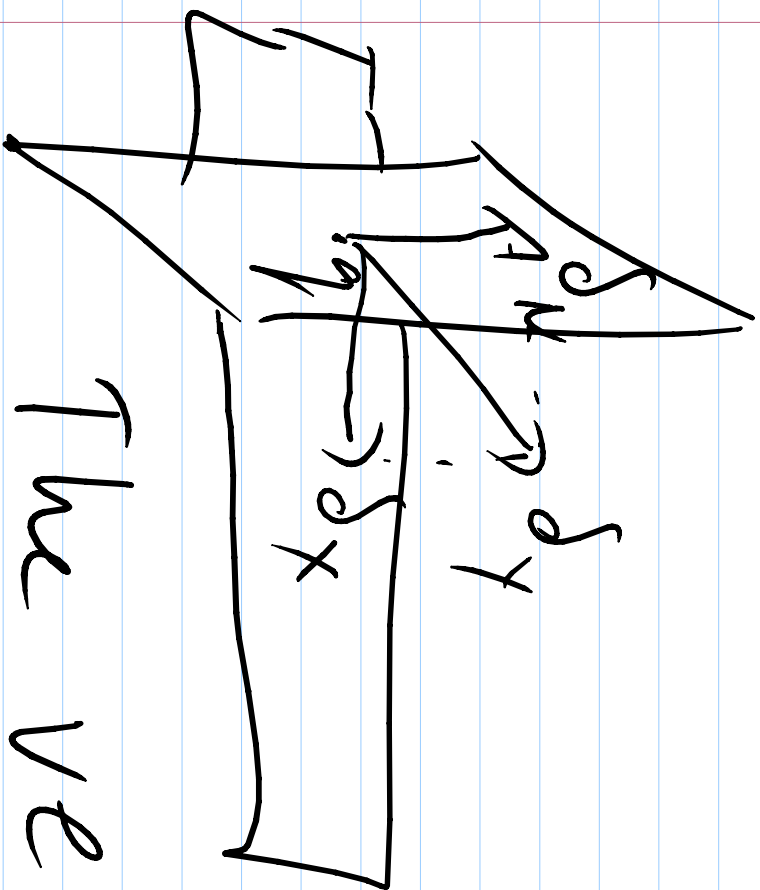
Unique decomposition

---

$$Y^I \mathcal{Q}_I = N^I \mathcal{Q}_I + X^I \mathcal{Q}_I$$

given

$$N_{r|v} \stackrel{!}{=} Y_{r|v}, \quad N_{(v|A)} \stackrel{!}{=} Y_{(r|A)}$$



The vector counter

$$\frac{\partial_r p^r}{\partial_r p^x} (v_i \theta) = -\frac{\partial_B p^B}{\partial_A p^A} - \frac{1}{2} \mathcal{L}_{\text{matter}}$$

$$\frac{\partial_r p^x}{\partial_r p^y} (v_i \theta) = \frac{1}{2} g_{KB|v} p^{A|B} - \frac{\partial_A p^A}{\partial_A p^y} - \frac{1}{2} \mathcal{L}_m$$



$\int \dots \int p_{rv}$

$\int \dots \int p_{vA}$

$\int_{rv} = 1, \int_{vA} = 0$

$$\begin{aligned} & \int \Phi(r, \theta), \int f_{rv} p_{rv} + 2 \int f_{vA} p_{vA} \\ & = - N^r \partial_v \Phi(r, \theta) - \mathcal{L}^A \partial_x \Phi(r, \theta) \end{aligned}$$





$$H = \int h(r, \rho, \phi, \pi) d^3x$$

$$\left[ F(r, \theta), H \right] = \left[ F(r, \theta), H \right] +$$

$$- \mathcal{L}_N F(r, \theta)$$

$$N = N \left( \int_0^r \frac{\partial h}{\partial p_{r'}} \int_0^{r'} \frac{\partial h}{\partial p_{r'}} \int_0^r \frac{\partial h}{\partial p_{r'}} \right) \frac{\partial h}{\partial p_{\pi}(\phi)}$$

$g_0$

