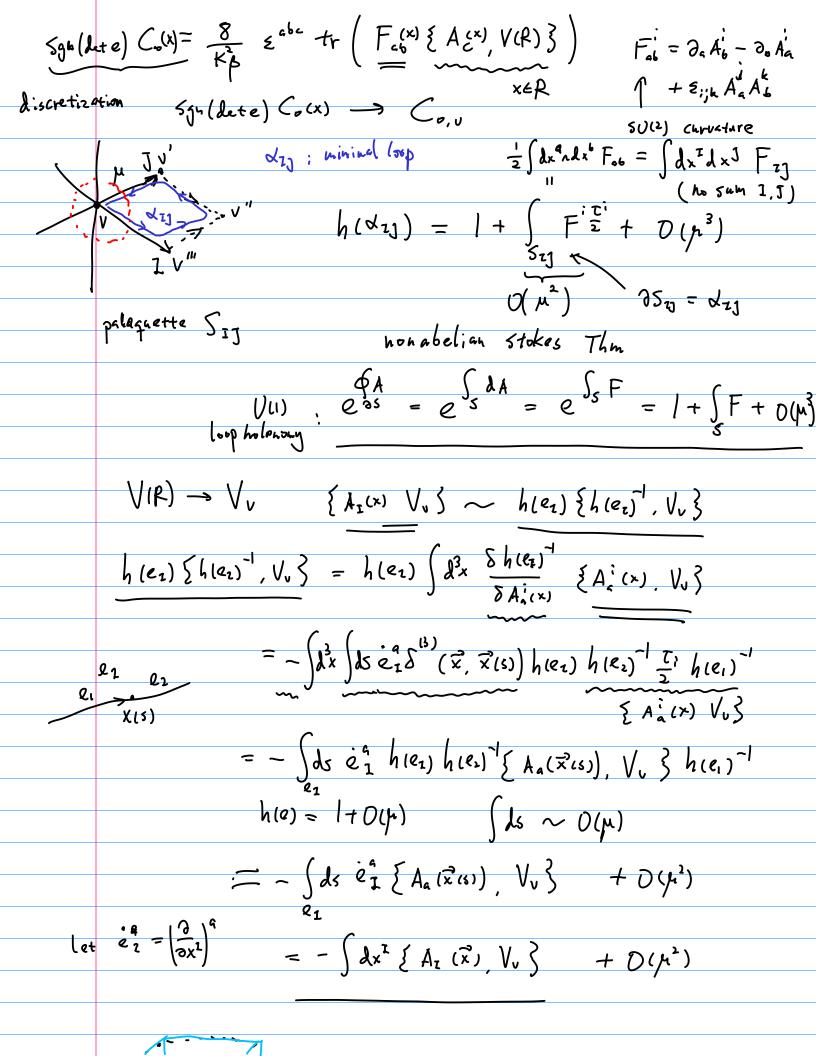
```
Before 1987-88: QG with ADM formalism (P^{ab}, 9ab)

wave fure f[7] P^{ab} \Rightarrow \hat{P}^{ab}(x) = -it \frac{\delta}{\delta q^{ab}}
                       C= + [ [Pob Pab - 1 P2 ) - Idet 3 P(9)]
                      C [[] = 0 functional ditt.
Wheeler-Dewitt eqn
1988 → 1996: Ashtekar variable (E; Ai)
                                              wave func. f (hee)
                      C = T Fab (Zijk Ej Ek) + ---
                            E_{j}(x) \rightarrow -i\beta l_{p}^{2} \frac{\delta}{\delta A_{c}(x)}
                                 How to get Thet? without divergence
  1996-1996
                   Thienann 3 Hamiltonian constraint.
     C_{0}(x) = \frac{-2}{K} + r \left( \overline{\Gamma_{0}} \frac{[E^{0}, E^{0}]}{[I_{0}, I_{0}]} \right) \qquad E^{0} = \overline{E_{0}^{0}} + \overline{E_{0}^{0}} = -i \overline{G}
Lemma \{A_c(x), V(R)\} = -\frac{k\beta}{8} 5gh(\text{let }e) \frac{[E^*, E^b]}{\sqrt{\text{let }q}} \epsilon_{abc}

X \in \mathbb{R}

E_j^* = J \text{let }q e_j^* \quad e_j^* + i y h t / left hand sigh(\text{let }e) = \pm 1
 \frac{P \cos f}{x}: V(R) = \int_{R} d^3x \sqrt{det f(x)}
```

$$\frac{SV(R)}{SE_{i}^{2}(x)} = \int_{R}^{A^{2}x} \frac{1}{2 \int_{Set}^{2}(x)SE_{i}^{2}(x)} \int_{At}^{At} \frac{1}{2 \int_{At}^{2}(Ate)} \int_{Si}^{At} \frac{1}{2 \int_{At}^{2}(Ate)} \int_{At}^{At} \frac{1}{2 \int_{A$$



$$\int_{S^{+}}^{A^{+}} \int_{S^{+}}^{A^{+}} \int_{S_{+}}^{A^{+}} \int_{S_{+}}^$$

