Bore inverse proposodor = two-point function
$$\frac{S^2 S}{S \varphi S \varphi} = \frac{S^2}{S \varphi S \varphi} \int_{0}^{2} \int_{$$

$$L(A''(x), \partial A''(x)) = \frac{1}{2} \log (\partial_V A_{\mu} \partial^V A'' - \partial_{\mu} A_{\nu} \partial^V A^{\mu} + \frac{1}{\alpha_A} \partial_{\mu} A'' \partial_{\nu} A')$$

$$S[A''] = \int d'_{X} L$$

$$\int A'' S = \frac{\partial L}{\partial A''} - \partial_{\mu} \frac{\partial L}{\partial (\partial_{\mu} A)}$$
pole tensorouse jobs and export

Jo of what I think! ->
$$\frac{J\zeta}{JH'} = \frac{\Im \mathcal{L}}{\Im A''} - \partial_{\alpha} \frac{\Im \mathcal{L}}{\Im(\partial_{\alpha} A'')}$$

$$\frac{2}{2} fg \left(\partial_{\nu} A_{\mu} \partial^{\nu} A'' - \partial_{\mu} A_{\nu} \partial^{\nu} A'' + \frac{1}{\alpha_{A}} \partial_{\mu} A'' \partial_{\nu} A'' \right)$$

$$O = \frac{1}{2} fg \partial_{\alpha} \left(\frac{1}{\alpha_{A}} 2 \cdot \partial_{\alpha} A' \cdot \delta_{\alpha \mu} + \partial_{\nu} A_{\alpha} \cdot \frac{\Im(\partial^{\nu} A')}{\Im(\partial_{\alpha} A'')} + 2^{\omega} A' \cdot \frac{\Im(\partial_{\alpha} A)}{\Im(\partial_{\alpha} A)} + 2^{\omega} A' \cdot \frac{\Im(\partial_{\alpha} A$$

$$-\partial_{t} A_{c} \frac{\partial(\partial^{c} A^{b})}{\partial(\partial_{a} A^{p})} - \partial^{c} A^{b} \frac{\partial(\partial_{b} A_{c})}{\partial(A_{a} A^{p})} = - \sqrt{9} \left(\frac{1}{\alpha_{a}} \partial_{\mu} \partial_{a} A^{a} + \partial_{a} \partial^{a} A_{\mu} - \partial_{a} \partial_{\mu} A^{a}\right)$$

$$(\delta \partial_{ac}) \cdot \delta_{b\mu} \qquad \delta_{ab} (\delta \delta_{c\mu})$$

$$\partial_{\mu} A^{a} - \partial_{\mu} A^{a}$$

$$\partial_{\mu} A^{a} - \partial_{\mu} A^{a}$$

$$\partial_{ab} (\delta \partial_{c\mu}) = - \sqrt{9} \int_{ab}^{b} \frac{\partial(\partial_{c} A^{c})}{\partial(\partial_{c} A^{p})} d^{a} d^{a}$$

Dobrze - w mothematice

jest Js wice jest p no dole

- tutoj na garze via de

Wyfilk:
$$\frac{JS}{JA^{\mu}} = -ig\left(\partial_{\alpha}J^{\alpha}A^{\mu} - \partial_{\alpha}J^{\mu}A^{\alpha} + \frac{i}{2}A^{\alpha}J^{\mu}\partial_{\alpha}A^{\alpha}\right)$$

Wyfilk: $\frac{JS}{JA^{\mu}} = -ig\left(\partial_{\alpha}J^{\alpha}A^{\mu} - \partial_{\alpha}J^{\mu}A^{\alpha} + \frac{i}{2}A^{\alpha}J^{\mu}\partial_{\alpha}A^{\alpha}\right)$

Dhe packworder of the horizon and g :

$$\frac{JF[GCS]}{JS(g)} = \frac{JF[GG]}{JGCSS}\Big|_{G=GGG} \cdot \frac{JG[GS]}{JS(g)}$$
 a jecki G to tolology particlesed, explinite intervalue of participation, to $JF[GG]$
 $JS(g) = \frac{JF[G(g^2]}{JgS(g)]} \cdot \frac{dg(g)}{dS(g)}$

Where: $S = SEA^{\mu} = \int L(A^{\mu}, \partial_{\alpha}A^{\mu}) = \int L(F[A^{\mu}], \partial_{\alpha}F[A^{\mu}]) = S[F[A^{\mu}]]$

where: $JS[F[A_{\mu}A^{\mu}]] = \int dp\left(\frac{JS[A^{\mu}]}{JA^{\mu}} \cdot \frac{JF[A^{\mu}]}{JA^{\mu}}\right)$
 $JS[GF[A_{\mu}A^{\mu}]] = \int dp\left(\frac{JS[A^{\mu}]}{JA^{\mu}} \cdot \frac{JF[A^{\mu}]}{JA^{\mu}}\right) = \int dx e^{-ipx} \cdot \frac{JS[A^{\mu}]}{JA^{\mu}}(x)$
 $JS[GF[A_{\mu}A^{\mu}]] = \int dp\left(\frac{JS[A^{\mu}]}{JA^{\mu}} \cdot \frac{JF[A^{\mu}]}{JA^{\mu}}\right) = \int dx e^{-ipx} \cdot \frac{JS[A^{\mu}]}{JA^{\mu}}(x)$
 $JS[GF[A_{\mu}A^{\mu}]] = \int dp\left(\frac{JS[A^{\mu}]}{JA^{\mu}} \cdot \frac{JS[A^{\mu}]}{JA^{\mu}} \cdot \frac{JS[A^{\mu}]}{JA^{\mu}}\right)$
 $JS[GF[A_{\mu}A^{\mu}]] = \int dp\left(\frac{JS[A^{\mu}]}{JA^{\mu}} \cdot \frac{JS[A^{\mu}]}{JA^{\mu}} \cdot \frac{J$

stard dostojemy In -> momentum Bak ladom že (211) " z transpormaly iz pochodny i się pokof zjedaja

$$\frac{\int}{\int A^{\mu}} \int \mathcal{L}(p, \mathcal{F}[A^{\mu}](p)) = \frac{\int \mathcal{S}'[\mathcal{F}[A^{\mu}]]}{\int A^{\mu}} \longrightarrow \mathcal{F}[p^{\mu}p_{\mu} + (\frac{1}{2}-1)(p^{\mu})^{2}]$$

$$\frac{\int \int A_{\rho}^{m} T}{\int A_{\rho}^{m} T} = -ig \left(\frac{1}{\alpha_{n}} + \int A_{\rho}^{m} A_{\rho}^{a} + F \int_{\alpha} \partial^{n} A^{n} - F \int_{\alpha} \partial^{n} A^{\alpha} \right) = -ig \left(P^{2} A_{\rho}^{m} + \left(\frac{1}{\alpha_{n}} - 1 \right) P^{\mu} P_{\alpha} A^{\alpha}_{\rho} \right)$$

$$\int A^{\mu} \int P^{\mu} P_{\alpha} A^{\alpha}_{\rho} \qquad P_{\alpha} P^{\alpha} A^{\mu}_{\rho} \qquad P_{\alpha} P^{\mu} A^{\alpha}_{\rho}$$
mornentum squared

Druga woriocja: -19 Solpe-ipx S (p2A,r+(2,-1)P*PaA,a)

C> Mucrego zeby wystło dobrze, domnożyć trzeba 1, przed 5?

 $A_{\rho}^{a}\left(-\left(\frac{1}{a}-1\right)A_{\rho}^{b}\rho_{\alpha}\rho_{b} + A_{\rho}a\cdot\rho^{2}\right) = -\left(\frac{1}{a}-1\right)A_{\rho}^{a}\rho_{\alpha}A_{\rho}^{b}\rho_{b} + A_{\rho}^{a}A_{\rho}a\rho^{2}$ $= -\left(\frac{1}{a}-1\right)\left(A_{\rho}^{a}\rho_{\alpha}\right)^{2} + A_{\rho}^{2}\rho^{2} = \left(1-\frac{1}{a_{A}}\right)\left(A_{\rho}^{a}\rho_{\alpha}\right)^{2} + A_{\rho}^{2}\rho^{2}$ $> A_{\rho}A^{\rho}$

 $\int_{A'}^{\infty} \int_{A'}^{\infty} \int_{A'}^{\infty$