Schnart & massile spin-1 Lagrangian, with no current: L=-4Fno+ =meAn2 1 - - + F = + = m2 A2 - Jn An If the egm for d=-4 Fno-Judy is du Fnv=Jv, then the egm for this Lagr would be  $m^2A_V - J_V + J_W F_{\mu\nu} = 0$  $m^2A_{\nu}+\partial_{\mu}F_{\mu\nu}=J_{\nu}$ In momentum space, it's m2 Av \* Pu (Pm Av - PAm) = Ju m gnv An A P guv An + Pupu An = Jv (m²+p²)gu+PnPv Au = Jv [(m2-p2) gmv + PuPu] An = Ju

Invert 
$$[(m^2-p^2)g_{\mu\nu} + P_{\mu}P_{\nu}]P_{\mu}P_{\nu} =$$

$$= (m^2-p^2)p^2 + p^4$$

$$= m^2p^2$$

$$= m^2p^2$$

$$= (m^2-p^2)g_{\mu\nu} + P_{\mu}P_{\nu} = 1$$

$$= \frac{p^2p^2}{m^2p^2}$$

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Dardson Chey 2.21.2024