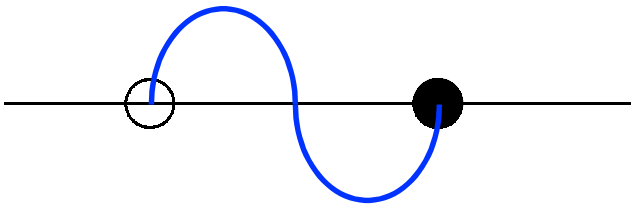
Why Photoproduction :

In the flux tube model all low lying exotic quantum numbers come from $S_{QQ} = 1$



$$P = P_{QQ}\,\eta(-)^{Lg+1}$$

$$C = C_{QQ}\,\eta(-)^{Lg}$$

$\rho \rightarrow \pi_1$ $\quad 1^{--} \rightarrow 1^{-+}$ $\quad L_g=1,\ \eta=1,\ S_{QQ}=1$

$\gamma \rightarrow \rho \rightarrow \pi_1$

VMD

"pluck" the string
t-channel exchange (π) OPE

Heavy hybrids ?

small cross sections

e^+e^- hybrid wave functions at the origins are small (ang.mom.