Lagrangian density

$$-\beta\,\phi^2 + \phi\,\rho + \alpha\,\partial_\alpha\phi\,\partial^\alpha\phi$$

$$\phi_{0^+}^{\#1} \dagger \boxed{-\beta + \alpha\,k^2}\, \phi_{0^+}^{\#1}$$

$$\rho_{0^+}^{\#1} \dagger \boxed{\frac{1}{-\beta+\alpha\,k^2}}\, \rho_{0^+}^{\#1}$$

(No source constraints)

Massive particle	
Pole residue:	$\frac{1}{\alpha} > 0$
Polarisations:	1
Square mass:	$\frac{\beta}{\alpha} > 0$
Spin:	0
Parity:	Even

(No massless particles)

$\alpha > 0$ && $\beta > 0$