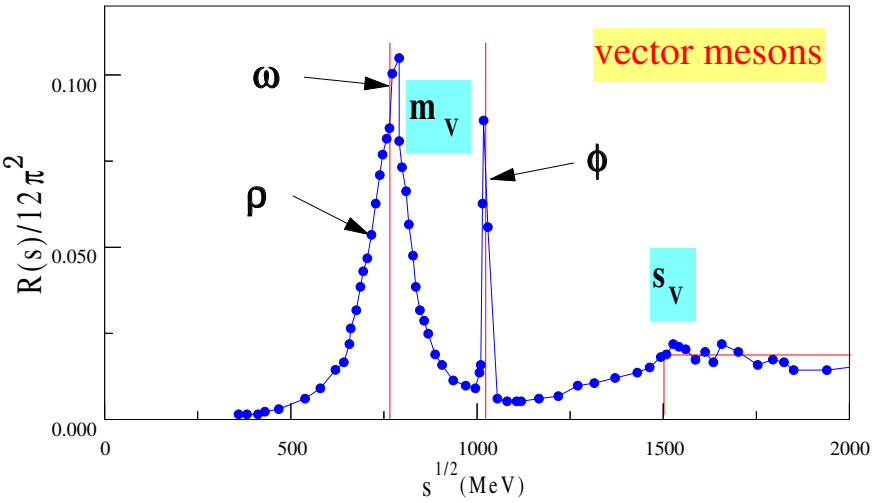
simple 'ansatz' for the spectral function:

$$R(s) = -\frac{12\pi}{s}\mathrm{Im}\Pi^{\circ}(s)$$
$$= \mathcal{F}_V\,\delta(s - m_V^2) + d_V\left(1 + \frac{\alpha_s}{\pi}\right)\Theta(s - s_V)$$



'in-medium' sum rules:

$$\Pi_{\mu\nu}(q) = -i\int d^4x\, e^{iqx} \ll\mathcal{T}(J_\mu^V(x), J_\nu^V(0))\gg$$

characterized by two functions:

$$\Pi_{L,T}(\omega, \vec{q})$$