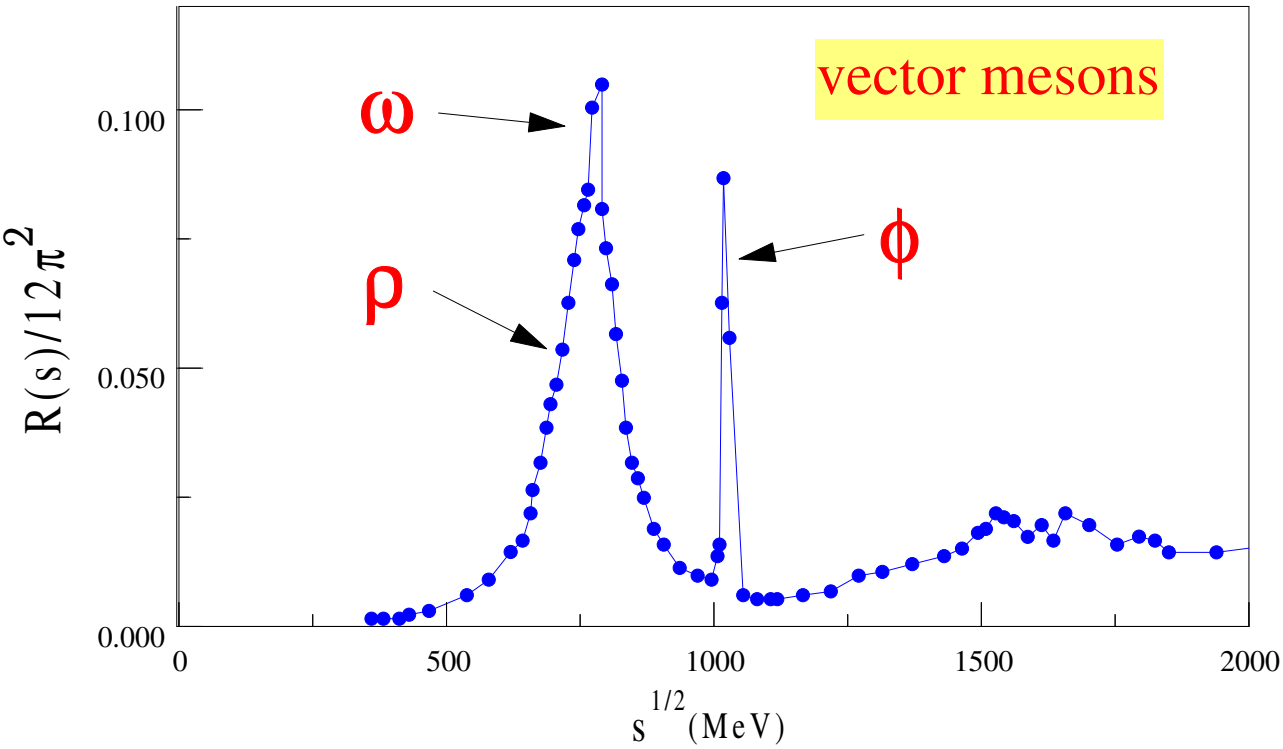
Vector Mesons

- vector mesons $\rho, \omega, \phi, J/\psi$ as resonances in e^+e^- annihilation

$$R(s) = \frac{\sigma(e^+e^- \to \text{hadrons})}{\sigma(e^+e^- \to \mu^+\mu^-)}$$

$$\sigma(e^+e^- \to \mu^+\mu^-) = 4\pi\alpha^2/3s$$