

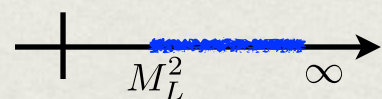
MEM is applied to QCD sum rules

QCD sum rules

information about $\rho(s)$

$$G(M^2) = \int_0^\infty K(M^2; s) \rho(s) ds$$

where parameter M^2 is effective
only on the **line**

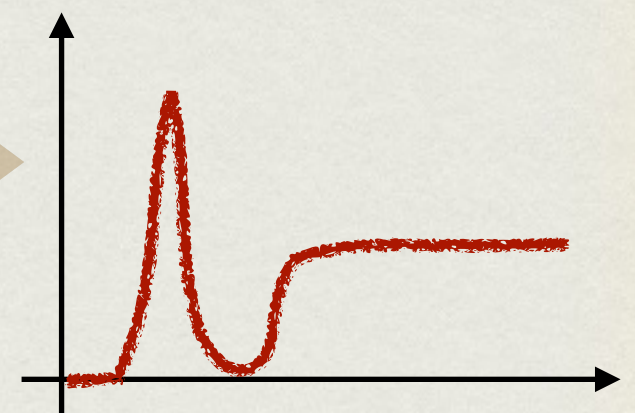


MEM

Method to determine SPF
from inputted information

Spectral function

$\rho(s)$



successful to predict mass of ground state

New sum rules are constructed

$$\tilde{G}(\mathcal{M}^2) = \int_0^\infty \tilde{K}(\mathcal{M}^2, s) \rho(s) ds$$

\mathcal{M}^2 : complex parameter

New sum rules with MEM

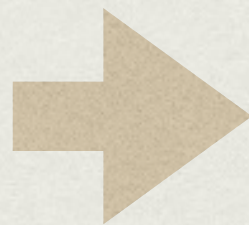
New sum rules
information about $\rho(s)$

MEM

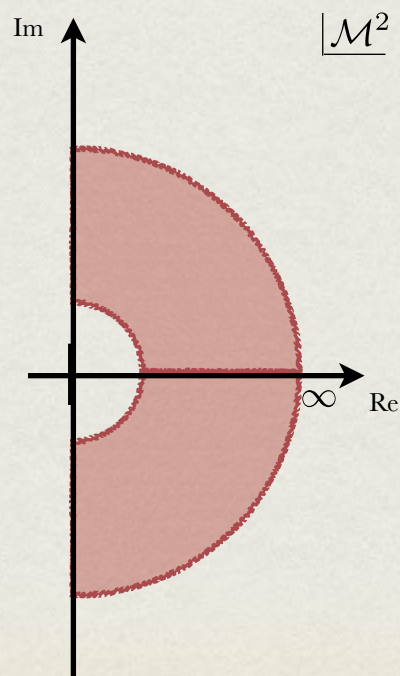
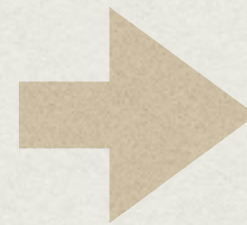
Spectral function
 $\rho(s)$

$$\tilde{G}(\mathcal{M}^2) = \int_0^\infty \tilde{K}(\mathcal{M}^2, s) \rho(s) ds$$

where complex parameter
is available on the complex **plane**



Method to determine SPF
from inputted information



Larger volume of information is inputted