ADLER FUNCTIONS

$$D(Q^2) = \int_0^\infty \frac{Q^2\ R(s)ds}{(s+Q^2)^2}, \quad \widetilde{D}(Q^2) = \int_0^\infty \frac{Q^2\ \widetilde{R}(s)ds}{(s+Q^2)^2}$$

with, $R(s) = 1 + \alpha_s/\pi + \dots$ and $\widetilde{R}(s) = 1 + \frac{17}{3}\alpha_s/\pi + \dots$ as well as ($a_s \equiv \alpha_s/\pi$)

$$\begin{aligned} D(Q^2) &= 1 + \sum_{i=1}^\infty d_i\ a_s^i(Q^2), \quad R(s) = 1 + \sum_{i=1}^\infty r_i\ a_s^i(s)\ , \\ \widetilde{D}(Q^2) &= 1 + \sum_{i=1}^\infty\ \widetilde{d}_i a_s^i(Q), \quad \tilde{R}(s) = 1 + \sum_{i=1}^\infty\ \tilde{r}_i a_s^i(s)\ , \end{aligned}$$

where we $\mu^2 = Q^2$ or to $\mu^2 = s$ respectively.