- Solution of the melon diagrams yields a Green's function at $T = 0$ of the form

$$G(\tau) \sim \begin{cases} -\tau^{-2\Delta} & \tau > 0 \\ e^{-2\pi\mathcal{E}}(-\tau)^{-2\Delta} & \tau < 0 \end{cases} \quad , \quad T = 0$$

  where $\Delta = 1/4$ is the fermion scaling dimension. The *particle-hole asymmetry* is determined by the parameter $\mathcal{E}$ which universally depends only upon $\mathcal{Q}$.

- At $T > 0$ this has the conformal form

$$G(\tau) = -A \frac{e^{-2\pi\mathcal{E}T\tau}}{\sqrt{1 + e^{-4\pi\mathcal{E}}}} \left(\frac{T}{\sin(\pi T \tau)} \right)^{2\Delta} \quad , \quad 0 < \tau < 1/T \,.$$