

We will need higher-order terms in the OPE of 2 currents in CFT3s. This has the general form

$$\lim_{|\omega| \gg p} J_x(\omega) J_x(-\omega + \mathbf{p}) = -|\omega| \sigma_\infty \delta^{(3)}(\mathbf{p}) - \frac{\mathcal{C}}{|\omega|^{\Delta-1}} \mathcal{O}(\mathbf{p}) \\ + \frac{\mathcal{C}_T}{\omega^2} \left[T_{xx}(\mathbf{p}) - T_{yy}(\mathbf{p}) - 12\gamma(T_{xx}(\mathbf{p}) + T_{yy}(\mathbf{p})) \right] + \dots$$

where \mathcal{O} is the scalar operator of dimension $\Delta = 3 - 1/\nu$ (it tunes away from the critical point), and \mathcal{C} , \mathcal{C}_T , γ are OPE coefficients. There is a conjectured exact bound $|\gamma| \leq 1/12$.