

Consider a CFT in D space-time dimensions with primary operators $O_a(\boldsymbol{x})$ with scaling dimension Δ_a . This is presumed to be equivalent to a dual gravity theory on AdS_{D+1} with action $\mathcal{S}_{\text{bulk}}$. The bulk theory has fields $\phi_a(\boldsymbol{x}, r)$ corresponding to each primary operator. The CFT and the bulk theory are related by the GKPW ansatz

$$\int \mathcal{D}\phi_a \exp(-\mathcal{S}_{\text{bulk}}) \Big|_{\text{bdy}} = \left\langle \exp \left(\int d^D x \phi_{a0}(\boldsymbol{x}) O_a(\boldsymbol{x}) \right) \right\rangle_{\text{CFT}}$$

where the boundary condition is

$$\lim_{r \rightarrow 0} \phi_a(\boldsymbol{x}, r) = r^{D-\Delta} \phi_{a0}(\boldsymbol{x}).$$