

For every primary operator  $O(\boldsymbol{x})$  in the CFT, there is a corresponding field  $\phi(\boldsymbol{x}, r)$  in the bulk (gravitational) theory. For a scalar operator  $O(\boldsymbol{x})$  of dimension  $\Delta$ , the correlators of the boundary and bulk theories are related by

$$\langle O(\boldsymbol{x}_1) \dots O(\boldsymbol{x}_n) \rangle_{\text{CFT}} = Z^n \lim_{r \rightarrow 0} r_1^{-\Delta} \dots r_n^{-\Delta} \langle \phi(\boldsymbol{x}_1, r_1) \dots \phi(\boldsymbol{x}_n, r_n) \rangle_{\text{bulk}}$$

where the “wave function renormalization” factor  $Z = (2\Delta - D)$ .