

- Physical AdS modes  $\Phi_P(x, z) \sim e^{-iP \cdot x} \Phi(z)$  are plane waves along the Poincaré coordinates with four-momentum  $P^\mu$  and hadronic invariant mass states  $P_\mu P^\mu = \mathcal{M}^2$ .
- For small- $z$   $\Phi(z) \sim z^\Delta$ . The scaling dimension  $\Delta$  of a normalizable string mode, is the same dimension of the interpolating operator  $\mathcal{O}$  which creates a hadron out of the vacuum:  $\langle P | \mathcal{O} | 0 \rangle \neq 0$ .