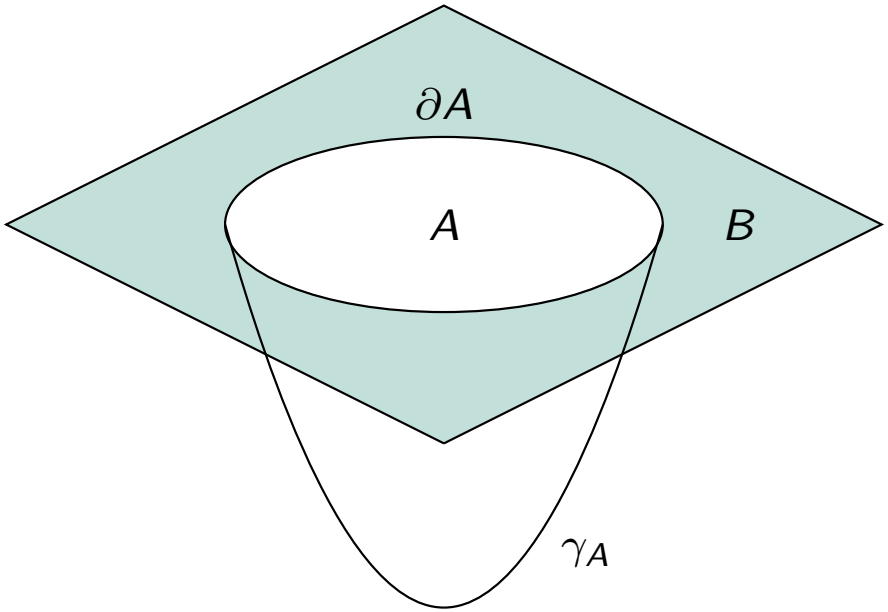
- Entanglement entropy in field theory calculated via

$$S_{EE,A} = -\mathrm{tr}\ (\rho_A \ln \rho_A)$$

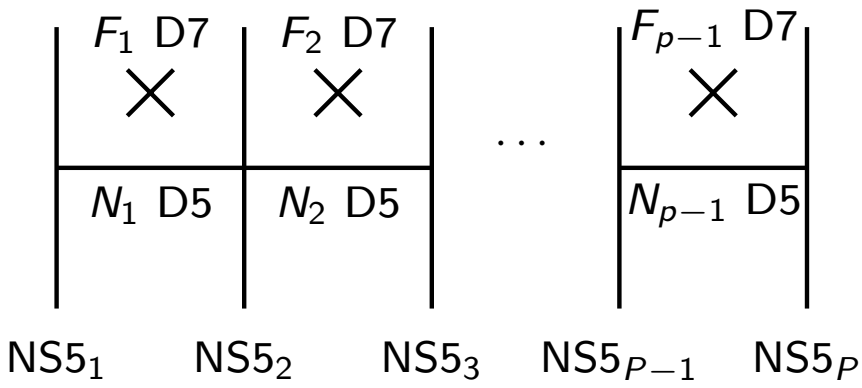
- Entanglement entropy in holography calculated via

$$S_{EE,A} = \frac{\mathrm{area}(\gamma_A)}{4G_N^{d+1}}$$

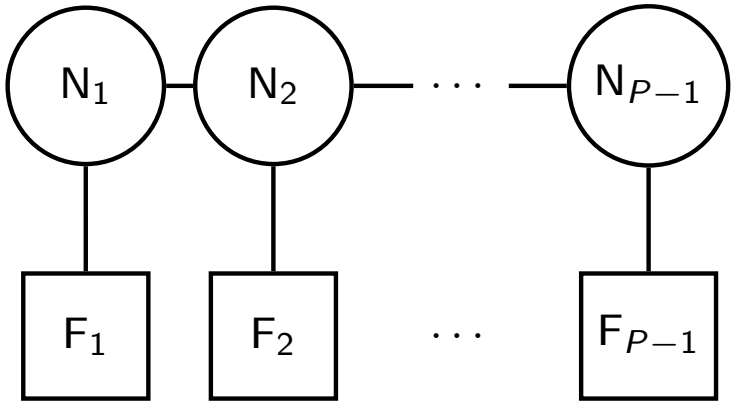
with d the dimension of the boundary theory



- The background we work with is $AdS_6 \times S^2 \times \Sigma_2$
- The dual field theory on the AdS boundary comes from an infinite family of 5d SCFTs sourced by a HW brane configuration
- In the IR these flow to 4d non-supersymmetric gapped theories



(a)



(b)

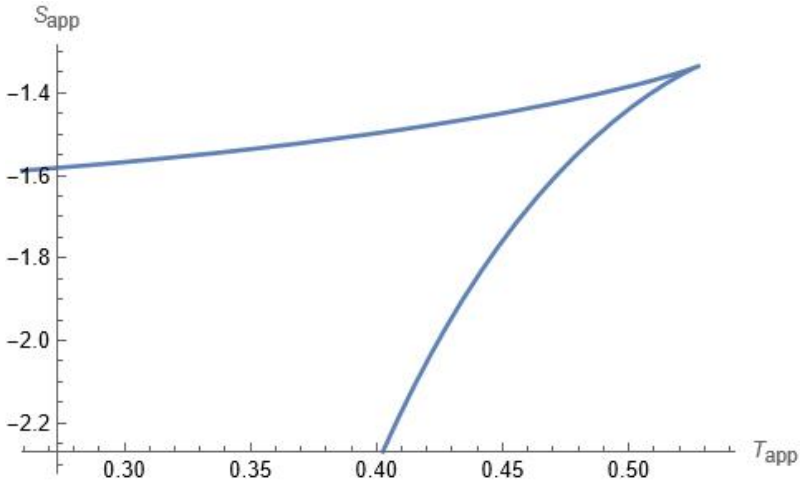


Figure: Phase transition behaviour from EE as a function of slab width

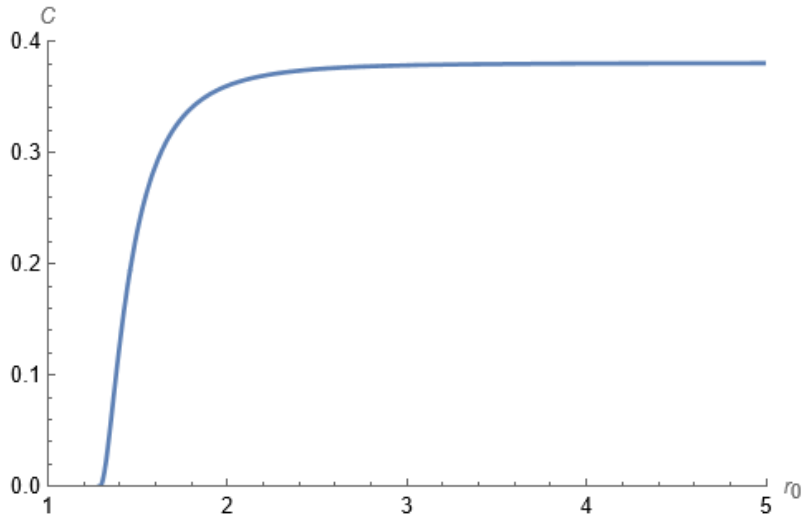


Figure: c-function from EE as a function of embedding surface turning point