Edge Weights = geodesic length CFT surface of ALS state
Boundary of Bilk Proportional to entanglement entropy of a region. which is equal to entanglement Larger Weights Strength. 1.e. higher weight = Stronger Connection Stronger correlation, = more entanglement between connectivity Sub regions Graph model Let N dente subregion of boundary L. Where N can be infinite $(N_1 + N_2 + \dots + N) = \lfloor$ deeper in bulk The more subregions gov have, the deeper you bring bandary in bulk Note about graph type: Typically choose a specific graph structure for a specific problem i.e. diamond work graph for simpler problems, circular graph, planar . But can also create own graph based on problem constraints. i.e. how many subregions, or nodes needed. Note: Graph I created is diamond-work graph in sense of edges but not weights Ме Ex. Minimum Spanning graph/ entropy of discrete bulk S(A) = 6- Subregion A with rest of boundary = min-cut graph = minimal surface where S= entropy = minimum edge weight = Ryu-Takanagi (RT-formula) Note: With this value completes Entropy of a region is S(BD)=10 the sum of weight of the holographic dictionary edges in minimum cut that separate that where BD = region from the rest of What gives us bulk geometry the graph union