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*Random 2-component links which span a lattice tube*

Atapour, Ernst, Soteros, and Whittington showed that all but exponentially few sufficiently large pairs of self-avoiding polygons, each confined to and spanning a lattice tube, are topologically linked. These systems are of interest because they can be used to model the entanglements of ring polymers in nanochannels. In this talk, we turn our attention to small tube sizes that still allow for interesting linking behaviors. These tube size constraints will enable us to compare the exponential growth rates of various families of links. This is joint work with Jeremy Eng, Rob Scharein, and Chris Soteros.