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Stu Whittington* (swhittin@chem.utoronto.ca), University of Toronto, Toronto, Ontario M5S 3H6, Canada. *Entanglement complexity of closed 2-manifolds in tubes in Z^3 and Z^4* . Preliminary report.

Consider a random embedding of a closed 2-manifold in a three or four dimensional lattice. For the complete lattice there are many open questions about how bad this embedding will typically be. By restricting attention to embeddings in tubes in Z^3 or Z^4 we can use transfer matrix techniques to answer some of these questions. This is joint work with Mahshid Atapour, Chris Soteris and De Witt Sumners. (Received January 10, 2014)