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Stu Whittington* (swhittin@chem.utoronto.ca), University of Toronto, 80 St George Street, Toronto, Ontario M5S 3H6, Canada. *Knotted 2-spheres in tubes in Z^4* . Preliminary report.

We consider 2-spheres in a tube in Z^4 and prove a pattern theorem using transfer matrix techniques. This implies that all except exponentially few such 2-spheres are knotted. This is joint work with Chris Soteris and De Witt Summers. (Received February 08, 2010)