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Alexander Engström, Christian Go and Matthew T. Stamps*

(matt.stamps@yale-nus.edu.sg). *Betti numbers and anti-lecture hall compositions of random threshold graphs.*

This talk examines the one-to-one-to-one correspondence between threshold graphs, Betti numbers of quotients of polynomial rings with 2-linear resolutions, and anti-lecture hall compositions. We present explicit combinatorial mappings between each of these families of objects and give formulas for the expected values of the Betti numbers and anti-lecture hall composition corresponding to a random threshold graph. (Received September 18, 2017)