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Dimension of unicycle poset

It is known that for uniformly random poset, when there is a low pobability for edges to appear in the cover graph, almost surely their cover graph will be a collection of trees and unicycle graphs.

Motivated by the study of the dimension of random posets, it was conjectured by Bollobás and Brightwell in 1997 that a finite poset whose cover graph contains at most one cycle has order dimension at most 3.

In this talk, we will discuss about poset dimension and give the idea behind a proof of this conjecture.

Joint work with A. Segovia