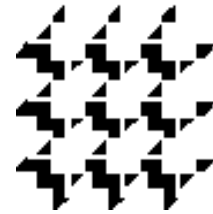


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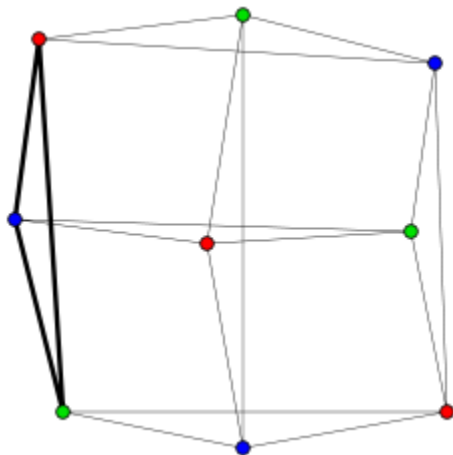


REU SEMINAR TALK
Tuesday, June 11, 2019, 2:00pm
CoRE Building, Room 431

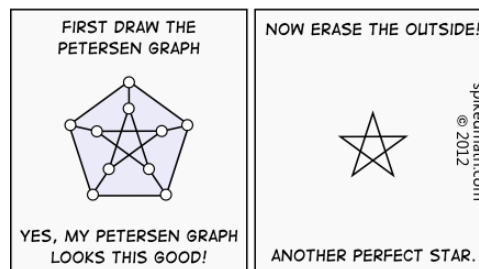
Prof. Maria Chudnovsky
Department of Mathematics
Princeton University



Induced subgraphs and coloring



HOW A GRAPH THEORIST DRAWS A "STAR":



Abstract

About 10 years ago one of the central open problems in graph theory at the time, the Strong Perfect Graph Conjecture, was solved. The statement of the conjecture (now a theorem) is a structural description of all graphs that behave particularly well with respect to coloring in terms of their forbidden induced subgraphs. In the 1980s Andras Gyarfás made several beautiful conjectures, generalizing the idea of perfect graphs, by suggesting a more relaxed definition of what "behaving well" means. Recently, substantial progress has been made on these and other related questions, and we will discuss it in this talk.
This is joint work with Alex Scott and Paul Seymour.

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