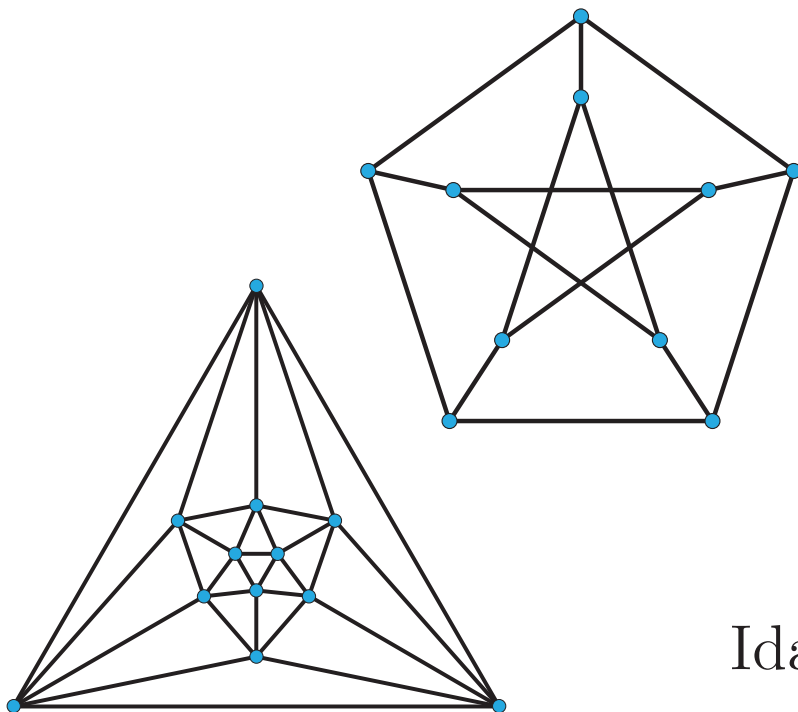




Colloquium Series

Traversing symmetric graphs



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Abstract: Can you find a path that visits all twelve vertices in the icosahedral graph exactly once? What about through the ten vertices in the Petersen graph? Can you find such a path that also returns to the initial vertex? Conjectures dating from the early 1970s about the existence of such paths in two broad classes of highly symmetric graphs remain far from resolved. We will explore the statements of these conjectures as well as a counter conjecture, and survey some recent progress.

Keywords: Graph Theory, Group Theory

Wednesday October 10th, 1:05 - 1:50pm in 8-249