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Chordal Graphs aren't Cycle Extendable ... So What?

A cycle in a graph is extendable if its vertices are contained in a cycle of size one greater. A graph is cycle extendable if every non-Hamiltonian cycle is extendable. Hendry conjectured that any Hamiltonian chordal graph is cycle extendable. This conjecture was proven for several subclasses of chordal graphs such as interval graphs, split graphs, and spider intersection graphs. But Hendry's conjecture has been disproved (Lafond, Seamone, 2014+). I'll give another conjecture to replace Hendry's which will hopefully inspire some more nice papers, and share some results on tournaments and their cycle extendability.

This talk will be presented by Andrii Arman.