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**MARCUS SCHAEFER**, DePaul University

*Removing Monotone Crossings*

Pach and Toth showed that if a graph has an  $x$ -monotone drawing in which every pair of edges crosses an even number of times, then the graph has a straight-line embedding in which the  $x$ -coordinates of all vertices are unchanged. We strengthen this by showing that the conclusion remains true if adjacent edges are allowed to cross oddly. This yields a new and simple algorithm to test level-planarity.

Joint work with Fulek, Pelsmajer, Stefankovic.