

Even pairs in Berge graphs

Maria Chudnovsky
Columbia/CMI

A few years ago, in joint work with Neil Robertson, Paul Seymour and Robin Thomas we proved the Strong Perfect Graph Theorem, which was a long standing open problem in graph theory. Our proof was 179 pages long. Recently, jointly with Paul Seymour, we were able to replace the last 55 pages of the proof (which are the least intuitive part of it) with a much shorter and simpler argument. This simplification is based on an approach by Maffray and Trotignon. In my talk, I will explain the ideas of the new proof.