A polynomial algorithm for the edge-disjoint paths problem in tournaments

Date Tuesday, November 17

Time 3 pm

Location 622 Math

Abstract: We present a polynomially bounded algorithm to solve the following problem: for fixed $k \geq 0$, given a tournament T and k pairs of vertices of T, decide if there exist k mutually edge-disjoint paths of T joining the pairs. This problem is known to be NP-complete for digraphs in general for $k \geq 2$. Joint with Paul Seymour.