BRETT STEVENS, Carleton University, 1125 Colonel By Dr., Ottawa, ON K1S 5B6
Maximally Pair Separated Round Robin Tournaments: Ordering the Blocks of a Design

In a Round Robin Tournament with multiple edges, we can ask that we schedule the successive games between any given pair as far apart in time as possible. We show that for a cyclic n day, $\lambda = 2$, tournament schedule on n players it is impossible to ask that successive game for the same pair be at least $\lfloor n/2 \rfloor$ days apart. However we also show that if we allow a small number to be separated by $\lfloor (n-2)/2 \rfloor$ days apart, then such a schedule is possible. These orderings fit into an interesting unifying framework that brings together quite a few previously known results.