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Jozsef Balogh, Felix Clemen, Emily Heath* (eheath3@illinois.edu) and **Mikhail Lavrov.**

On the ordered size Ramsey number of paths.

An ordered graph is a simple graph with an ordering on its vertices. We are interested in the ordered path P_n with n edges whose vertices appear in increasing order. The ordered size Ramsey number of P_r versus P_s is the minimum number of edges in an ordered graph H such that every red-blue coloring of the edges of H contains either a red copy of P_r or a blue copy of P_s . In this talk, we will present upper and lower bounds on this number which are tight up to a polylogarithmic factor and discuss connections to other Ramsey numbers for paths. (Received September 17, 2019)