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Christopher Cox* (cocox@andrew.cmu.edu) and **Derrick Stolee**. *Ramsey numbers on the Boolean lattice.*

We present an extension of Ramsey numbers, in particular the recently popular ordered Ramsey numbers, by considering graphs with a partial ordering on their vertices. In this context, we can use various families of posets in order to build host graphs for Ramsey problems, each having unique challenges. In this talk, we focus on Ramsey numbers of this kind which arise from Boolean lattices. We explore connections between 1-uniform Ramsey numbers and Turán problems on the Boolean lattice, and, in higher uniformities, find strong differences between Ramsey numbers on the Boolean lattice and ordered Ramsey numbers when the partial-orderings on the graphs have large antichains. (Received September 12, 2016)