

---

**JAN HUBICKA**, Department of Applied mathematics

*Big Ramsey degrees of the homogeneous universal partial order*

We apply the Carlson-Simpson theorem to show that the homogeneous universal partial order are finite. This new construction has several other applications; in particular, it gives the first direct proof of a theorem by Dobrinen on big Ramsey degrees of the universal homogeneous triangle-free graph. We also discuss the generalization to the triangle constrained strong amalgamation classes in binary language satisfying certain completion property and if time allows discuss actual big Ramsey degrees which is a joint project with Balko, Chodounsky, Dobrinen, Konecny, Nešetřil, Vena, and Zucker.