

Negligible obstructions and Turán exponents

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Time: Thursday, Aug 13th, 10:00 - 11:00

Zoom meeting ID: 674 097 85703 Password: 111317

Link: <https://zoom.com.cn/j/67409785703>

Abstract: The conjecture on the realizability of rational exponents states that for every rational number r in $(1, 2)$ there is a graph F such that $ex(n, F) = \Theta(n^r)$. In their beautiful work, Bukh and Conlon resolved a weaker version of the conjecture, where F is allowed to be a family of graphs. Subsequent work has been focusing on narrowing this family down to a single graph. We formulate a framework, that is taking shape in recent work, to attack the conjecture, and we showcase an application of the framework to obtain infinitely many new Turán exponents. (Joint work with Tao Jiang and Jie Ma. <https://arxiv.org/abs/2007.02975>)