

Institut für Diskrete Mathematik

Combinatorics Seminar

Friday 4th June 14:15

Online meeting (Webex)

The effect of VC-dimension on sunflowers

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According to the Erdos-Rado sunflower conjecture, for any integer $r > 0$, there is a constant $c = c(r) > 0$ such that any family of at least c^k sets of size k has r members such that the intersection of every pair of them is the same. We come close to proving this conjecture for families of bounded Vapnik-Chervonenkis dimension. We use a similar approach to attack other Ramsey-type questions. Joint work with Jacob Fox and Andrew Suk.

Meeting link:

<https://tugraz.webex.com/tugraz/j.php?MTID=me01f43109c693c884b459339d643d7d9>

Meeting number: 121 128 5385

Joshua Erde, Mihyun Kang