(Agnieszka Widz)

Given a family of real functions  $\mathcal{F}$  we say that a set  $M \subseteq \mathbb{R}$  is magic for  $\mathcal{F}$  if

$$\forall_{f,g\in\mathcal{F}}f[M]\subseteq g[M]\Rightarrow f=g.$$

This notion was introduced by Diamond, Pomerance and Rubel in 1981 [1]. Recently some results about magic sets were proved by Halbeisen, Lischka and Schumacher [2]. Inspired by their work I constructed two families of magic sets one of them being almost disjoint and the other one being independent. During my talk I will discuss those results and sketch some of the proofs.

## References

- H. G. Diamond, C. Pomerance, L. Rubel, Sets on which an entire function is determined by its range, Mathematische Zeitschrift, 176 (1981), 383-398.
- [2] L. Halbeisen, M. Lischka, S. Schumacher, *Magic Sets*, Real Anal. Exchange, 43 (2018), 187 -204.