## ▶ FRANCESCO PARENTE, Ultrafilters on the Cohen algebra.

In this talk, I will analyse combinatorial aspects of ultrafilters on the Cohen algebra, focusing in particular on the Tukey ordering and the ultrafilter number. For the first part, I will present some consistency results concerning the existence of ultrafilters which are not Tukey maximal. As for the ultrafilter number of the Cohen algebra, I aim to discuss its relation with the cardinals in Cichoń's diagram.

These results have been obtained in collaboration with Brendle [1, 2] and more recently with Brendle and Hrušák [3].

[1] JÖRG BRENDLE AND FRANCESCO PARENTE, Combinatorics of ultrafilters on Cohen and random algebras, **The Journal of Symbolic Logic**, vol. 87 (2022), no. 1, pp. 109–126.

[2] JÖRG BRENDLE AND FRANCESCO PARENTE, Orderings of ultrafilters on Boolean algebras, Topology and its Applications, vol. 323 (2023), 108279.

[3] JÖRG BRENDLE, MICHAEL HRUŠÁK, AND FRANCESCO PARENTE, Almost refinement, reaping, and ultrafilter numbers, arXiv:2410.18595 [math.LO].