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## Killing ideals softly

Joint work with Lyubomyr Zdomskyy.

We say that a forcing notion  $\mathbb{P}$  *+-destroys* a Borel ideal  $\mathcal{J}$  if  $\mathbb{P}$  adds an  $\dot{H} \in \mathcal{J}^+ = \mathcal{P}(\omega) \setminus \mathcal{J}$  such that  $|A \cap \dot{H}| < \omega$  for every  $A \in \mathcal{J}^V$ .

In this talk, I will discuss (a) which ideals can be +-destroyed, (b) examples of ideals which can be destroyed (that is, when we require only  $\dot{H} \in [\omega]^\omega$ ) without being +-destroyed, also examples when destruction implies +-destruction, and (c) the cardinal invariants associated to +-destruction of ideals.

Furthermore, I will present a combinatorial characterization of +-destructibility of ideals by forcing notions of the form  $\mathbb{P}_I$ .