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The refinement relation and its associated cardinal invariants

Joint work with Jörg Brendle

Given a notion of forcing $\mathbb{P}$, let $\mathrm{Part}(\mathbb{P})$ be the directed set of all maximal antichains of $\mathbb{P}$ equipped with the refinement relation. My talk will focus on the combinatorial properties of $\mathrm{Part}(\mathbb{P})$ from the point of view of Tukey reducibility. Furthermore, I shall discuss some cardinal invariants associated to $\mathrm{Part}(\mathbb{P})$, giving a complete characterization in the case of Cohen forcing and random forcing.