

# Heike Mildenberger

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## A Ramsey-theoretic notion of forcing

We introduce Gowers–Matet forcing with a finite sequence of pairwise non-isomorphic Ramsey ultrafilters over  $\omega$  and Gowers–Milliken–Taylor ultrafilters over the  $k$ -valued blocks  $\text{Fin}_k$ . For evaluating the new forcings, we prove a strengthening of Gowers’ theorem on colourings of  $\text{Fin}_k$ . We investigate Ramsey spaces in the forcing extension.