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An invariant set-theoretic approach to "no analytic mad families"

Mathias proved in 1969 that there are no infinite analytic maximal almost disjoint families of subsets of ω. His proof is essentially Ramsey theoretical. A few years ago I found a "classical" proof of this theorem which uses a tree/derivative argument. But in this talk, I will discuss yet another proof, this time one that is closer in spirit to Mathias' original proof, but which avoids the Ramsey theoretical machinery by instead using a bit of garden-variety invariant descriptive set theory.