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Existence results for Howell cubes

In this talk, I will describe some new existence results for Howell cubes of even order. We construct Howell cubes, $H_3(2n, 2n+\alpha)$, for $\alpha = 2, 4, 6$. I will also describe related results for 3 dimensional frames which are used in our constructions. This is joint work with Jeff Dinitz and Greg Warrington.