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The Toms-Winter conjecture: Z-stability and nuclear dimension

The Toms-Winter conjecture predicts that three very different-looking properties are equivalent for simple separable amenable unital infinite dimensional C^* -algebras. I will discuss two of these properties - Z-stability and finite nuclear dimension - and a very recent result that they are equivalent. This is joint work with J. Castillejos, S. Evington, S. White, and W. Winter.