A Shape Lemma for Ideals of Differential Operators

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Joint work with Christoph Koutschan and Thibaut Verron.

We will report on a recent joint article with Koutschan and Verron (J. Algebra, 677:448–459, 2025) in which we propose a version of the classical shape lemma for zero-dimensional ideals of a commutative multivariate polynomial ring to the noncommutative setting of zero- dimensional ideals in an algebra of differential operators.