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Minimal General Octonion Polynomials and Octonion Identities

To classify polynomial integrable evolutionary PDEs up to some degree over octonions an approach is to compute Lax pairs satisfying the condition $L_t = [M, L]$ as discussed in the talk presented by Philic Lam.

This talk describes the first step of computing polynomial identities for octonions and their use in generating a minimal ansatz for general homogeneous polynomials L and M.

The computational complexity and methods to overcome it are discussed.