

Euler--Koszul homology for hypergeometric systems

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A-hypergeometric systems are the D-module counterparts of toric ideals, and their behavior is linked closely to the combinatorics of toric varieties. Euler--Koszul homology is a D-module Koszul functor introduced by Matusevich, Miller, and Walther that has shed great light on these systems. We will discuss its implications for the parametric behavior of their solution spaces.