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A hypergeometric view on Landau singularity

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Recent years have seen a resurgence of old topics in quantum field theory. One of them is Landau singularity, which should be defined as the singular locus of a Feynman integral. In this talk, we develop a way to understand and compute Landau singularity from the perspective of hypergeometric system, which is a special class of D-modules. This explains why Landau singularity is a natural generalization of principal A-determinant.

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