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Reciprocal A-Determinants and Banana Singularities

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We introduce the reciprocal A-determinant of a reciprocal linear space as an analog of the principal A-determinant of a toric variety. For an appropriate choice of the matrix A , the zero locus of the reciprocal A-determinant consists of the Landau singularities of a banana integral. I will explain the definition and illustrate it with examples. I will also introduce an analog of the GKZ A-hypergeometric system which annihilates the integral, and whose singular locus is our determinant. This is joint work with Saiei-Jaeyeong Matsubara-Heo.

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