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The hyperdeterminant of a symmetric tensor

Luke Oeding

(Submitted on 23 Jul 2011)

The hyperdeterminant of a symmetric tensor factors into several irreducible factors with multiplicities. Using geometric techniques these factors are identified along with their degrees and their multiplicities. The analogous decomposition for the \mu-discriminant of a symmetric tensor is found.

Subjects: Algebraic Geometry (math.AG) MSC classes: 14M12, 14M17, 15A69, 15A72 Report number: Mittag-Leffler-2011spring Cite as: arXiv:1107.4659v1 [math.AG]

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