REPLICATED MEASUREMENTS, IDEALS AND DERIVATIVES

ROBERTO NOTARI

A basic application of algebraic statistics to design and analysis of experiments considers a design as a zero-dimensional variety and identifies it with the ideal of a variety. Then, a subset of a standard basis of the design ideal is used as support for identifiable regression models. In the talk, I' ll consider first this problem in the case where more than one measurement is taken at a design point. Then, I' recall the notion of apolarity and some recent results obtained by means of this notion.

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