

FLUID VARIETIES

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ABSTRACT. We invent the notion of a *derived variety* as a tool for exploring the lattice of subvarieties of a given variety. A modification of the notion of a *fluid variety* invented in [10] as a counterpart of the notion for a *solid variety* (see [6]) is given. A fluid variety V has no proper derived variety as a subvariety. We examine some properties of derived and fluid varieties in the lattice of all varieties of a given type τ . Examples of such varieties of bands are presented.

Keywords: fluid varieties, derived algebras, derived varieties, proper varieties.

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