



Victor V. Przyjalkowski (Moskau/Wien) Weak Landau--Ginzburg models and toric degenerations

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Given a smooth Fano variety, Mirror Symmetry predicts the existence of a so called Landau-Ginzburg model -- one-dimensional family of varieties whose symplectic geometry reflects the algebraic geometry of the Fano variety, and viceversa. We discuss this relation for mirror symmetry conjecture of Hodge structure variations that translates this relation to a quantitative level. Given Landau-Ginzburg model one may predict some numerical invariants of Fano variety and its birational type. We discuss relation (going back to Batyrev) between Landau-Ginzburg models for given Fano variety and its toric degenerations.

Contact:

Humboldt-Universität zu Berlin . Institut für Mathematik
SFB 647 . Unter den Linden 6 . 10099 Berlin
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727
sfb647@math.hu-berlin.de

www.raumzeitmaterie.de