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On periods for string compactifications. (English) Zbl 0990.32501

Nucl. Phys., B 420, No. 1-2, 268-288 (1994).

Summary: Motivated by recent developments in the computation of periods for string compactifications with $c = 9$, we develop a complementary method which also produces a convenient basis for related calculations. The models are realized as Calabi-Yau hypersurfaces in weighted projective spaces of dimension four or as Landau-Ginzburg vacua. The calculation reproduces known results and also allows a treatment of Landau-Ginzburg orbifolds with more than five fields.

MSC:

32G20 Period matrices, variation of Hodge structure; degenerations

32G81 Applications of deformations of analytic structures to the sciences

32J81 Applications of compact analytic spaces to the sciences

81T30 String and superstring theories; other extended objects (e.g., branes) in quantum field theory

Cited in **2** Documents

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