

February 12, 2024

Christopher Brav

*Deformations of Calabi–Yau manifolds and
the Bogomolov–Tian–Todorov theorem*

The aim of this talk is to review how “deformation theory is controlled by differential graded Lie algebras” and to describe a variant of the proof of the Bogomolov–Tian–Todorov theorem on unobstructedness of deformations of compact Kahler Calabi–Yau manifolds. We shall try to be as elementary and explicit as possible, reviewing along the way deformations of complex structure, relation to the Dolbeault differential graded Lie algebra, and the Hodge decomposition of de Rham cohomology.

SCIENTIFIC SEMINAR
“DIFFERENTIAL GEOMETRY AND APPLICATIONS”

headed by Academician of RAS Anatoly T. Fomenko

The seminar takes place online in ZOOM on Mondays
from 4:45 p.m. to 6:20 p.m. (Moscow time)

The zoom-ref is provided only to registered persons

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