On some algebraic properties of the quantum homology

Yaron Ostrover

(MIT)

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In this talk we discuss certain algebraic properties of the quantum homology algebra of toric Fano manifolds. In particular, we describe an easily-verified sufficient condition for the semi-simplicity of the quantum homology. Moreover, we provide some examples of toric Fano manifolds for which the quantum homology is not semi-simple. (This is a joint work with Ilya Tyomkin.)

1:00 p.m.
Math 520
Columbia University