

# QUANTUM TORIC GEOMETRY

PRESENTED BY

## Ernesto Lupercio

*Cinvestav*



In these talks, I will explain the generalization of Toric Geometry to the non-commutative or quantum realm which we have called Quantum Toric Geometry. This is joint work with L. Katzarkov, L. Meersseman, and A. Verjovsky.

Classical Toric Manifolds are important objects in geometry and physics both for their simplicity and their beauty as a bridge between geometry and combinatorics. Quantum toric manifolds play the corresponding role in non-commutative geometry.

TUESDAY  
APRIL 24  
2018

5:00 P.M. • Ungar Building, Room 402

In this talk at a colloquium level I will try to introduce and motivate the theory with some relations to physics.

WEDNESDAY  
APRIL 25  
2018

3:45 P.M. • Ungar Building, Room 402

In this talk, I will introduce the formal definition of the objects of the theory.

WEDNESDAY  
APRIL 25  
2018

5:00 P.M. • Ungar Building, Room 402

In this talk, I will deal with more advanced properties of the theory.

HOSTED BY

Department of Mathematics

UNIVERSITY OF MIAMI  
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