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Department of Mathematics and Computer Science

# Colloquium

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## Long-Time Existence of the Anomaly Flow

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**Abstract:**

Conifold transitions are a mechanism in which a Calabi-Yau 3-fold is deformed into another by contracting curves and smoothing out the resulting conical singularities. It is fantasized that all Calabi-Yau 3-folds can be linked by a sequence of these transitions, however they do not preserve the Kähler condition. In this talk, I will discuss string-theoretic generalizations of the Kähler condition and a proposed method to obtain these structures known as the anomaly flow. In particular, I will touch upon a result that determines whether we can extend the flow past a certain interval.

**4 – 5pm**
**Wednesday, November 06, 2024**
**Room 204, Smith Hall**