



CLAREMONT CENTER  
for MATHEMATICAL SCIENCES

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DIAGRAMMATIC CALCULUS

by

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**Abstract:** What does it mean to “compute with diagrams”? With a bit of algebra, the magic of combinatorics and the mysterious Catalan numbers, we will construct a “diagrammatic algebra” and use it to recover some well-known facts about the Chebyshev polynomials. This novel approach, called categorification, provides insight into more complicated algebraic structures as well as inspiration for visual artists.

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**Wednesday, October 10, at 4:15pm**

Millikan 134, Pomona College

Refreshments at 3:45 p.m. in Harry’s Room (Millikan 209) & wine and cheese after the talk in Harry’s Room (Millikan 209)

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*The dinner will be hosted by Prof. Vin de Silva.*

*Please contact Prof. de Silva if you are interested in attending the dinner*