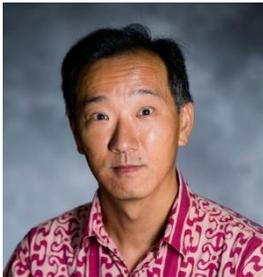# 2024

LANGENHOP LECTURE
& SIU PURE MATHEMATICS CONFERENCE

THURSDAY, MAY 16th, 2024
Langenhop Lecture delivered by:

Ken Ono
University of Virginia
Title: "Diophantine equations" in partition functions
4:00 PM | NECKERS BUILDING | ROOM 240

Abstract: The study of Diophantine equations has a long history, including the Pellian equations and the insidious Fermat equations. Here we take a particular look at a different kind of equation, "Diophantine equations" involving integer partition functions. Here we will present and announce results which will tie together many themes, from Hilbert's Tenth Problem, to modular forms, and ultimately to the surprising realization that all functions, known as quasimodular forms, are partition theoretic in origin in the sense of Major MacMahon.

For a full list of speakers and conference schedule, go to: math.siu.edu/llmc2024.

The 2024 SIU Mathematics Conference is funded by the National Science Foundation and College of Engineering, Computing, Technology & Math
The Conference Organizing Committee is:
Dubravka Ban, Wesley Calvert, Andrew Earnest, Jurek Kocik, Lindsey-Kay Lauderdale, Mathew Gluck, and Gabriel Ngwe

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