

# MATHEMATICS DEPARTMENT SEMINAR

## An Eulerian Recursion for the Sum of Divisors Function



**Dr. David Gove**



**California State University Bakersfield**



**2:10 PM TO 3:00 PM**



**Wednesday, October 29, 2025**



**Science III, Room 240**

### Abstract

In number theory, the sigma function maps positive integers to the sum of their divisors. The function and several of its properties are included in most elementary number theory courses (including all the ones I've taught at CSUB), especially as it relates to perfect numbers. It would seem to be quite well understood already. However, in this talk, I will demonstrate and prove a property of the function that was discovered, but not proved, by Euler.



**STUDENTS ARE WELCOME!**