

**Lecturer:** David Vogan (Massachusetts Institute of Technology)

**Title:** The character table for  $E_8$ , or how we wrote down a  $453060 \times 453060$  matrix and found happiness

**Abstract:** This is a story about what happens when pure mathematicians, proud of their inability to add, try to do a really large calculation. You'll learn why, if you ask your computer to count to 1,181,642,979, you should not write a counter to the screen.