CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

Wednesday, February 7
11:00 – 12:00 PM
Maria Sanford, Room 117

Moduli spaces of constant mean curvature surfaces

Jesse Ratzkin

UNIVERSITY OF CONNECTICUT

Constant mean curvature (CMC) surfaces are critical points of the area function, subject to a volume constraint. Physically, one should think of these surfaces as bubbles. I will discuss some recent advances in the theory of noncompact CMC surfaces of a fixed topological type. The regularity of certain moduli spaces is part of a joint project with Nick Korevaar and Rob Kusner.