1116-53-2052 C. Robin Graham* (robin@math.washington.edu) and Nicholas Reichert.

Higher-dimensional Willmore energies via minimal submanifold asymptotics. Preliminary report. This talk will describe a derivation of a conformally invariant energy for an even-dimensional submanifold of a Riemannian manifold generalizing the Willmore energy of a surface. The energy and its associated Euler-Lagrange equation both arise naturally upon considering the asymptotics of minimal submanifolds in asymptotically Poincaré-Einstein spaces associated to the background conformal manifold, in the spirit of the AdS/CFT correspondence. (Received September 21, 2015)