1116-53-2683   **Daniel A Cristofaro-Gardiner*** (`gardiner@math.harvard.edu`), 1 Oxford St., Cambridge, MA 02140. *Embedded contact homology cobordism maps and holomorphic curves.*

Embedded contact homology (ECH) is a kind of Floer homology for contact three-manifolds. It is possible to construct cobordism maps on ECH by using Seiberg-Witten theory. For various reasons, however, it would be desirable to have a direct definition of these maps in terms of holomorphic curves. I will explain some of the challenges to doing this, and give examples of specific cobordisms that are interesting to study. (Received September 22, 2015)