Heegaard splittings of distance $n$

Yeonhee Jang

Nara Women’s University

Abstract. Hempel introduced the concept of distance of Heegaard splitting by using curve complex, and showed that there exist Heegaard splittings of closed orientable 3-manifolds with distance $> n$ for any integer $n$. In this talk, we construct pairs of curves with distance exactly $n$ for any non-negative integer $n$, and use them to show that there exist Heegaard splittings of 3-manifolds with distance exactly $n$. (This is a joint work with Ayako Ido and Tsuyoshi Kobayashi.)