

1086-57-1694

**Roberto C Pelayo\*** (robertop@hawaii.edu), University of Hawaii at Hilo, Mathematics Department, Hilo, HI 96720, and **Jesse Johnson** and **Robin Wilson**. *The Coarse Geometry of the Kakimizu Complex*. Preliminary report.

Given a knot  $K \subset S^3$ , the Kakimizu complex of  $K$  is defined as the simplicial complex whose vertices are isotopy classes of minimal genus Seifert surfaces of  $K$ , and whose  $n$ -simplices are spanned by  $n + 1$  distinct isotopy classes with pairwise disjoint Seifert surface representatives. Using the JSJ structure of the knot complement, we show that the Kakimizu complex of any knot in  $S^3$  is quasi-isometric to a Euclidean integer lattice  $\mathbb{Z}^n$  for some  $n \geq 0$ . (Received September 24, 2012)