

1078-20-188

Aaron Abrams and **Praphat Xavier Fernandes*** (pxferna@emory.edu), Dept. of Math and CS, Emory University, 400 Dowman Dr., W401, Atlanta, GA 30322. *Quasi-Isometric Properties of Graph Braid Groups.*

We introduce a quasi-isometric invariant for graph braid groups. As an application we will use it to show that the graph braid groups $B_2(K_n)$ are quasi-isometrically distinct for all n . We will then discuss some properties of the invariant as well as possible generalizations. (Received December 06, 2011)