

1135-46-1316

Keshab Chandra Bakshi, Sayan Das and **Zhengwei Liu*** (zhengweiliu@fas.harvard.edu),
17 Oxford Street, Cambridge, MA , and **Yunxiang Ren**. *An angle between intermediate
subfactors and its rigidity.*

We introduce a new angle between intermediate subfactors and prove a uniform 60 to 90 degree bound for the angle between minimal intermediate subfactors of a finite index irreducible subfactor. From this rigidity we can bound the number of minimal (or maximal) intermediate subfactors by the kissing number in geometry. As a consequence, the number intermediate subfactors of an irreducible subfactor has at most exponential growth with respect to the Jones index. This answers a question of Longo published in 2003. (Received September 21, 2017)