

1162-57-138

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In this talk, we introduce new lower bounds of Turaev genus using various concordance invariant. As an application, we showed that for any positive integer g , we can find a quasi-alternating knot with Turaev genus g , which answers the question originally asked by Champanerkar and Kofman. This is a joint work with Hongtaek Jung and Sungkyung Kang. (Received August 30, 2020)