

On Dehn functions of Kähler groups

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A Kähler group is a group that can be realized as fundamental group of a compact Kähler manifold. I shall start by explaining why the question which groups are Kähler groups is non-trivial. Then we will address the question which functions can be realized as Dehn functions of Kähler groups. After explaining why Kähler groups can have linear, quadratic and exponential Dehn function, we show that there is a Kähler group with Dehn function bounded below by n^3 and bounded above by n^6 . This is joint work with Romain Tessera.

Best wishes, Claudio