

Slopes of colored links

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SUMMARY

We define the slope of a colored link associated to admissible characters on the link group. Away from a certain singular locus, the slope is a rational function which can be regarded as a multivariate generalization of the Kojima Yamasaki η -function. It is the ratio of two Conway potentials, provided that the latter makes sense; otherwise, it is a new invariant. We present several examples and discuss the invariance by concordance. (joint with A.Degtyarev and A.G.Lecuona)

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