Counting rainbow triangles via entropy method

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This is joint work with Maya Sankar and Hung-Hsun Hans Yu

Shannon entropy is a powerful tool used in many recent progresses in extremal combinatorics. Recently, new proofs of several classical results such as Turán's theorem and the Kruskal–Katona theorem via the entropy method were found. In this talk, we will talk about a rainbow version of the Kruskal–Katona theorem and possibly talk about its connection with the joints problem in incidence geometry.