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Raman Sanyal* (sanyal@math.berkeley.edu), Department of Mathematics, 970 Evans Hall #3840, Berkeley, CA 94720. *On the geometry and combinatorics of fan arrangements*. Preliminary report.

The combinatorics of hyperplane arrangements is a classical subject in geometric combinatorics. More recent objects of interest are arrangements of tropical hyperplanes which furnish combinatorial structures not dissimilar to the classical setting. Both classical and tropical hyperplane arrangements find a common ground in the notion of fan arrangements, that is, arrangements of complete, polyhedral fans. In this talk we report on work in progress regarding the geometry and combinatorics of fan arrangements. (Received February 23, 2010)