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**Ralph Morrison** and **Ngoc Mai Tran\*** ([tran.mai.ngoc@gmail.com](mailto:tran.mai.ngoc@gmail.com)). *Commuting tropical variety.*

Tropical matrices are closely tied with shortest paths in a directed graph, as well as polytropes - polytopes which are both ordinarily and tropically convex. They are not yet well-understood. In this introductory talk, we look for necessary and sufficient conditions for two square tropical matrices to commute. I will outline some recent results, and pose some open questions on the combinatorics of the tropical variety of commuting matrices. No tropical knowledge is required.

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