

## Tropical Fano schemes

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Abstract: The classical Fano scheme  $F_d(X)$  of a variety  $X$  parametrises  $d$ -dimensional linear spaces contained in  $X$ . In this talk I am going to define the tropical analogue of the Fano scheme  $F_d(\text{trop } X)$  and I will show its relation with the tropicalization  $\text{trop } F_d(X)$  of the classical Fano scheme. In particular I will focus on the tropical Fano schemes of tropicalized linear spaces and tropicalized toric varieties.