

Terminal Valuations and the Nash problem

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Abstract:

In this talk I will report on recent progress towards understanding the Nash problem in higher dimensions. In joint work with Tommaso de Fernex, we have shown that terminal valuations are in the image of the Nash map. Here terminal valuations are defined in the sense of the minimal model program, as those valuations given by the exceptional divisors on a minimal model over the variety. In dimension two, we get a new proof of the theorem of Fernández de Bobadilla and Pe Pereira, stating that the Nash map is bijective in dimension two.