

Exposé court

86 *Generalized campana points and adelic approximation on toric varieties*

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In recent years there has been considerable interest into Campana points and Darmon points, which provide a geometric framework for studying questions involving powerful numbers. We will considerably generalize these points, to also be able to study squarefree numbers, powers and more. For these generalized Campana points, we study when when these points are dense in the corresponding space of adelic points. We characterise when this analog of strong approximation is satisfied on a toric variety and give it a concrete combinatorial description, generalizing and strengthening classical results on strong approximation and generalizing the recent study of weak Campana approximation in [1].

Bibliography

- [1] M. Nakahara and S. Streeter. Weak approximation and the hilbert property for campana points, 2020, arXiv:2010.12555.