

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

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Seminarraum 05.002, Spiegelgasse 5

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Better bounding

ABSTRACT

Often in mathematics (and almost at all times in number theory) one wants to prove the finiteness of a "set". Once this is proved, one interest is to determine "how finite" this set is, for example by means of bounds. In this case, the main problem is to determine on what such a bound should depend on, and how.

In this talk, I will be presenting some examples of the above where the control on the bounds follows from Bézout's theorem. Furthermore, I will show an alternative to applying iteratively Bézout, to lose its underlying exponentiality.