

The logo for the FWF (Austrian Science Fund) consists of the letters 'FWF' in a bold, sans-serif font. The 'F' is blue, and the 'W' and 'F' are green.

Der Wissenschaftsfonds.

The logo for Johannes Kepler University Linz (JKU) features the letters 'JKU' in a bold, black, sans-serif font.

JOHANNES KEPLER
UNIVERSITÄT LINZ

Einladung

zum Vortrag im Rahmen des **SFB Colloquiums** (Standort Linz), mit dem Titel

On Euler's hypermagic squares

VORTRAGENDER: **Jörn Steuding**, Universität Würzburg

DATUM: Freitag, 9. November 2018

ZEIT: 10:15 Uhr

ORT: Science Park 2, S2 120, JKU Linz

Abstract: In 1770 Euler gave not only an explicit example of a 4x4 magic square of squares, or 'hypermagic square' for short, he even came up with a rational parametrization for an infinite family of those. He wrote: "This solution should be paid more attention to since I arrived at it not with some definite method but rather through guesses; If somebody will find a direct way to this solution, then it will be admitted that he made an outstanding contribution to Analysis. Whether similar solutions exist for wider squares consisting of 25, 36 etc. numbers, I hardly dare to claim." We shall analyze Euler's educated guesses for his hypermagic squares and discuss a 'direct' solution. This is joint work with Nicola Oswald from Wuppertal University.

Das **SFB Colloquium** wird vom **FWF Special Research Program (SFB) Quasi-Monte Carlo Methods: Theory and Application** unterstützt