

FIM Kolloquium

Am Dienstag, den 2. Juli 2024, hält

Oliver Roche-Newton

(JKU Linz)

einen Vortrag über das Thema

Sums, products and convexity

Ort: HS 11 IM, Zeit: 17.00 s.t.

Abstract: The sum-product conjecture states that any finite set must determine either many pairwise sums or many pairwise products. More generally, this conjecture captures the idea that additive and multiplicative structures do not coexist well, and this idea arises in many of the biggest open problems in mathematics still. I will give an introduction to this problem, with a focus on what can be proven using elementary methods.

Bio: Oliver Roche-Newton is a mathematician working at JKU Linz, Austria whose research focuses mainly on additive combinatorial and discrete geometric problems. He did his PhD in Bristol under the guidance of Misha Rudnev, and has since held positions in Hungary, United Kingdom, China and Austria. In 2022, he was awarded the Förderungspreis of the Austrian Mathematical Society.