

# 4<sup>th</sup> Cryptography Treasure Hunt an introduction to number theory based cryptography

Numbers 4 Safety

2 August 2024, Ananas Hotel, Vienna, Austria



This summer, Numbers 4 Safety travelled to Europe and held its 4<sup>th</sup> edition of the *Cryptography Treasure Hunt - an introduction to number theory based cryptography* in Vienna, Austria.

Organized by Bogdan Jones and Darius Jones, the event took place on August 2, 2024. Most of the participants of this 4<sup>th</sup> edition of the event were dedicated musicians who also appreciated the beauty of mathematics. While they were new to number theory and cryptography, they were eager to learn methods of encryption and decryption based on modular arithmetic.

With support from the organizers, they succeeded to decrypt sufficiently many clues to earn a prize. To their delight, they were awarded miniature golden keys as reminders of the intricate connections between music, mathematics, and cryptography.



*Decrypting fast requires computing power!*



*Talking about number theory based in cryptography is fun!*