Academic CV

Name: Szabolcs Kovács

E-mail: szabolcs.kovacs.uni@gmail.com

Phone: 06 30 598 9838

Studies:

2024-

ELTE TTK Doctoral School of Physics, Particle and Nuclear Physics programme

Research Proposal:

Title: Connecting inflation and dark energy

with particle physics

Advisor: Zoltán Trócsányi

Certificate: -

2022-2024

ELTE TTK Physics MSc, Research Physicist Specialization Particle Physics Module, Astrophysics Module

MSc Thesis:

Title: Inflation and dark energy from a

conformally coupled scalar field

Advisor: Zoltán Trócsányi Certificate: With honours

2018-2022

ELTE TTK Physics BSc, Physicist Specialization

BSc Thesis:

Title (Hu/En): Sötétenergia modellek / Dark energy models

Advisor: Zoltán Trócsányi

Certificate: Excellent

Academic activity:

2025

National TDK

Title (Hu/En): Kozmológiai infláció és sötétenergia egyetlen

skalármező paramétereinek függvényében / Cosmological inflation and dark energy depending on a single scalar field's parameters

Advisor: Zoltán Trócsányi

Awards: 2nd place (Physics, Earth Sciences and Mathematics

Section, Cosmology Division)

2023

Faculty TDK

Title (Hu/En): Kozmológiai infláció és sötétenergia egyetlen

skalármező paramétereinek függvényében / Cosmological inflation and dark energy depending on a single scalar field's parameters

Advisor: Zoltán Trócsányi

Awards: 2nd place (Quantum Systems and Theoretical Physics)

Morgan Stanley Special Award

Extracurricular activity:

2021-2025

Dormitory Student Delegate

Description: Elected to represent the dormitory residents' needs

towards the directorate

Relevant work: Administration of students' applications and

habitational data in the University's electronic system

(i.e. NEPTUN)

Other:

Language:

• English C1 certificate

Technical skills:

• Programming

Python: confident Mathematica: intermediate C: beginner

• Audiovisual editing:

Photo: confidentVideo, Sound: beginner

Interests:

- o Curved spacetime QFT,
- Alternative theories of Gravity,
- o Physics beyond the Standard Model