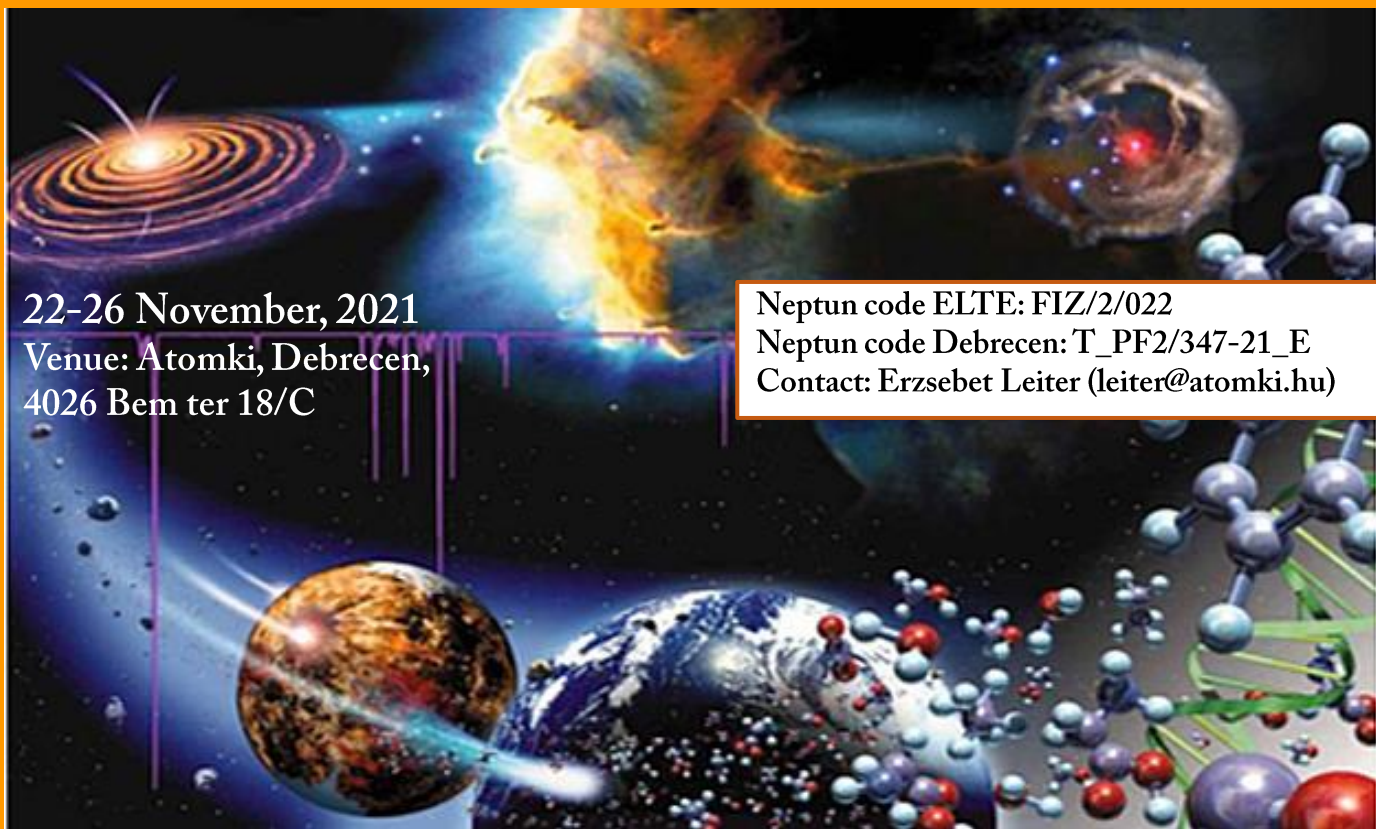


# PhD course: Astrophysics, Astrochemistry and the origins of life

Prof. Nigel Mason  
University of Kent, UK



22-26 November, 2021

Venue: Atomki, Debrecen,  
4026 Bem ter 18/C

Neptun code ELTE: FIZ/2/022

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**Summary:** How did life begin on Earth? and is there life elsewhere in the Solar system and beyond? These remain two of the greatest unanswered questions of modern science. Today through the integration of many different disciplines (astronomy, biology, chemistry, physics) we have both the scientific structure and technology to construct the research programme needed to address and even answer these questions.

In this course you will learn how elements and molecules necessary for life are formed as part of the general star and planet formation cycle and the different hypotheses that explain how they were brought to and assembled on Earth to form life. You will also learn what other places in our solar system may have or do support life and how we can search for it. You will also learn about how we are spreading our search for life to other stars and the exoplanets they contain. Finally we will discuss how humanity may 'boldly go' and explore new worlds!

