

S E M I N A R



Prof Gonzalo Olmo
(University of Valencia, Spain)

Date:

Tuesday, 10 June 2025

Time:

12h15-13h15 SAST

Venues:

- NITheCS Seminar Room
University of KwaZulu-Natal
Westville Campus
3rd Floor, H-Block,
School of Chemistry and Physics
- Online

WHO SHOULD ATTEND?

The seminar should be accessible to advanced undergraduates and will highlight results that should interest advanced researchers.

ENQUIRIES:

Email Neli Mncube: neli.mncube@nithecs.ac.za

The Quantum Side of the Universe

ABSTRACT:

Quantum theory, together with Einstein's general relativity, constitutes one of the fundamental pillars of our understanding of the universe. Although quantum aspects are commonly associated with the microscopic world, they are also fundamental to understanding the large-scale structure of the cosmos and the properties of the objects that inhabit it. Starting with the study of the energy that sustains stars and moving on to the formation and evaporation of black holes, in this talk we will see that the effects of quantum processes are present at all scales of the universe and that the next revolution in knowledge may come from a theory of quantum gravity.

Prof Gonzalo Olmo is Head of the Department of Theoretical Physics at the University of Valencia (Spain) and has served as Vice-president of the Spanish Society of Gravitation and Relativity (SEGRE) since 2019.

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