



ΑΡΙΣΤΟΤΕΛΕΙΟ  
ΠΑΝΕΠΙΣΤΗΜΙΟ  
ΘΕΣΣΑΛΟΝΙΚΗΣ

# ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑ ΦΥΣΙΚΗΣ

Πέμπτη 10 Οκτωβρίου 2019

ώρα 12:00

Αίθουσα Γενικών Συνελεύσεων (4<sup>ος</sup> όροφος, Νο:26)

## Κύκλος σεμιναρίων

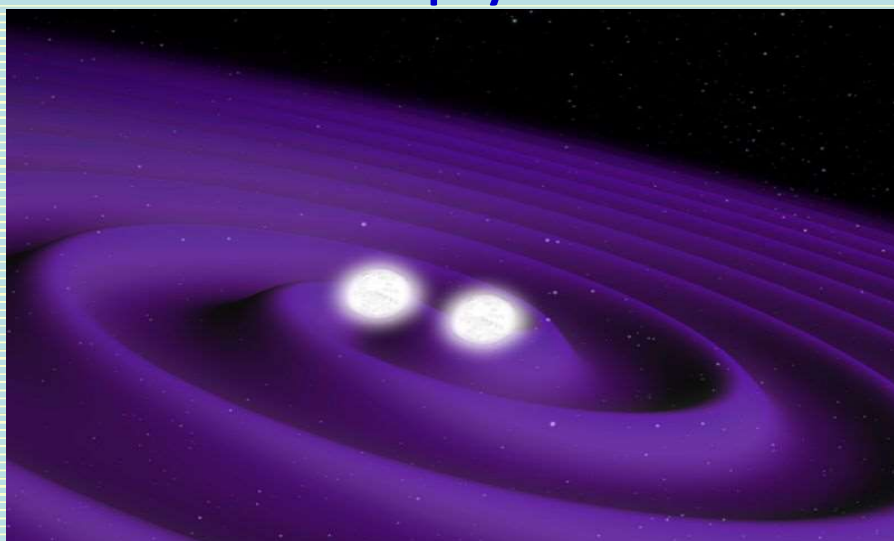


... ένα ταξίδι  
σύγχρονης

στον κόσμο της  
Φυσικής

στο Τμήμα Φυσικής

## Hyperon-nucleon and kaon-nucleon interactions and the physics of neutron stars



**Laura Fabbietti**

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We are working mainly on strange things, which sound maybe odd but it refers simply to particles containing a strange quark. Why is the study of mesons and baryons with a strange content relevant for the human kind? One of the pioneering idea behind this study was the hypothesis that neutron stars might have a condensate of strange particles in their core. Astronomers look at neutron stars and determine their mass and radii, we collide nuclei in the laboratory and try to produce high density environments, to measure there strange particles and help theoreticians in constraining models for neutron stars... among other things.

*Το προφίλ του ομιλητή*



I am Laura Fabbietti and I am associate professor at the TUM since 2008. I work in the field of experimental hadron physics and my research program focuses on strange hadrons production at accelerators and implications of their in-medium properties for the physics of neutron stars.