



ΑΡΙΣΤΟΤΕΛΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

ΣΕΜΙΝΑΡΙΟ ΠΜΣ ΥΠΟΛΟΓΙΣΤΙΚΗΣ ΦΥΣΙΚΗΣ ΤΜΗΜΑ ΦΥΣΙΚΗΣ

Τρίτη 19 Οκτωβρίου 2021

ώρα 12:00

Zoom link: <https://authgr.zoom.us/j/93408351002>

Σεμινάρια ΠΜΣ Υπολογιστικής Φυσικής 2021-2022

**ΥΠΟΛΟΓΙΣΤΙΚΗ ΔΥΝΑΜΙΚΗ,
ΑΣΤΡΟΔΥΝΑΜΙΚΗ & ΧΑΟΣ**

Φρακταλικές δομές & χάος
Παράδειγμα ελαστικής
Μελέτη του προβλήματος των 3 σφαιρών

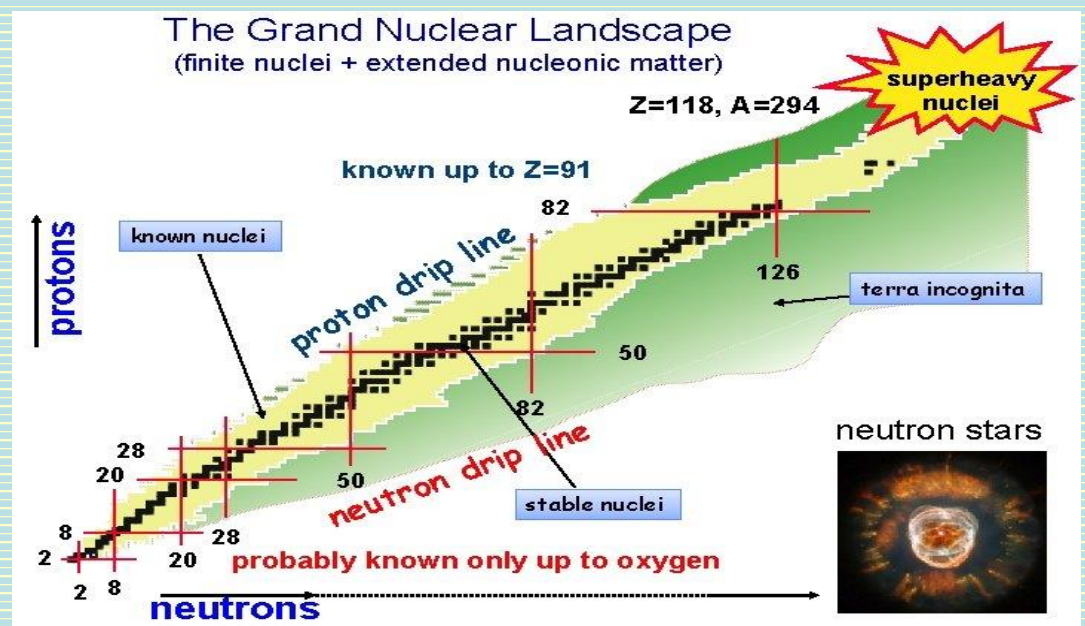
ΥΠΟΛΟΓΙΣΤΙΚΗ ΒΙΟΦΥΣΙΚΗ

Μελέτη της ροής & δομής του αγγειακού δικτύου
Βιομεταβολική & θερμική ανάλυση ανθρώπινων οργάνων
Εδαφική ραβδό απορρόφηση (SAR)
Προσομοίωση δομών πρωτεΐνης με τη μέθοδο πακέτου casp

ΠΥΡΗΝΙΚΗ ΦΥΣΙΚΗ & ΣΤΟΙΧΕΙΩΔΗ ΣΩΜΑΤΙΑ

Υ ROOT
Εκπαίδευση Roca (doctor-orientated program and internships) developed by CERN
Μικροσκοπικά & μακροσκοπικά τερματά αστέρια
Στοιχειώδη σωματίδια
& κοσμική ακτινοβολία

How does subatomic matter organize itself?



Associate Professor *Xavier Roca-Maza*
University of Milan

I will briefly introduce the strong synergy between “heaven and earth” which is instrumental in the study of the nuclear Equation of State (EoS). That is, the relevance of ground experiments as well as accurate astronomical observations on neutron stars and gravitational waves to shed light into one of the most challenging problems of our times: how does subatomic matter organize itself.

Το προφίλ του ομιλητή



Xavier Roca-Maza is Associate Professor at the University of Milan. His PhD at the University of Barcelona (2010) was devoted to the study of isospin asymmetry in exotic nuclei. The thesis received a special mention in the Dissertation Award in Nuclear Physics (2009-2011) of the European Physical Society. After two PostDoc experiences (2010-2013) he was appointed as Assistant Professor at the University of Milan. In 2017, he was selected as an "Emerging Leader" (Journal of Physics G: Nuclear and Particle Physics). His research has been mainly focused on the nuclear many-body problem based on Density Functional Theory. The study of symmetries in the nuclear context, and applications to neutron stars. Tight collaborations with experimentalists have been also part of his common research in Nuclear Physics. He currently teaches fundamental of physics, electromagnetism and a data modeling lab.