

**PhD in “Fusion Science and Engineering”
Università di Padova - Napoli “Federico II”**

Call for admission to the PhD courses 2021/22 (XXXVII cycle)

Research Topics

n.	Topic Description
1	Core plasma transport and integrated scenarios
2	MHD stability and control
3	Edge plasma physics and power exhaust
4	Neutral Beam Injector (NBI) physics and technologies
5	Heating and Current Drive (HCD) physics and technologies
6	Plasma diagnostics physics, interpretation and technologies
7	Theoretical and numerical plasma physics
8	Low temperature plasmas physics and technologies
9	Electromagnetic modeling for design and control of fusion devices
10	Design of electrical and mechanical components for fusion devices
11	Electrical technologies, circuits and systems for fusion devices
12	Technologies for Control, Data Access and Communication (CODAC)
13	Design of plasma controllers for fusion devices
14	Vacuum and high-voltage technologies
15	Socio-economic studies and energy scenarios including fusion

Contact persons

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