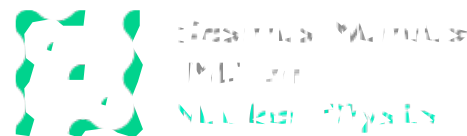


**Máster Interuniversitario de Física Nuclear  
2024-2025**



**Universidad Autónoma de Madrid  
Many-body Theories in Nuclear Physics.**

<b>In person</b>	<b>Monday 3/03/2025</b>	<b>Tuesday 4/03/2025</b>	<b>Wednesday 5/03/2025</b>	<b>Thursday 6/03/2025</b>	<b>Friday 7/03/2025</b>
09:30-11:30	General Overview	Mean Field	Interacting Shell Model	Interacting Shell Model	Beyond mean field
11:30-12:00	Break	Break	Break	Break	Break
12:00-13:00	Second Quantization	Mean Field	Interacting Shell Model	Beyond mean field	Beyond mean field
13:00-13:30	tutoring	tutoring	tutoring	tutoring	tutoring

<b>On line</b>	<b>Monday 10/03/2025</b>	<b>Tuesday 11/03/2025</b>	<b>Wednesday 12/03/2025</b>	<b>Thursday 13/03/2025</b>	<b>Friday 14/03/2025</b>
09:30-11:30	Computer session	Computer session	Computer session	Computer session	Computer session
11:30-12:30	Break	Break	Break	Break	Break
12:30-13:30	Computer session	Computer session	Computer session	Computer session	Computer session
13:30-14:00	tutoring	tutoring	tutoring	tutoring	tutoring

\*This schedule is tentative and may be subject to slight changes.

Lectures of the first week will be held at the Lecture Room 300. Module 15. Faculty of Science. Universidad Autónoma de Madrid (Department of Theoretical Physics) ([http://www.uam.es/ss/Satellite/FisicaTeorica/es/1234888474024/contenidoFinal/Llegar\\_al\\_Dpto..htm](http://www.uam.es/ss/Satellite/FisicaTeorica/es/1234888474024/contenidoFinal/Llegar_al_Dpto..htm))). On-line lectures of the second week will be held in the virtual room ([to be announced](#))

**Lecturers:**

- **Alfredo Poves (UAM)** ([alfredo.poves@uam.es](mailto:alfredo.poves@uam.es))
- **Luis Robledo (UAM)** ([luis.robledo@uam.es](mailto:luis.robledo@uam.es))
- **Samuel Giuliani (UAM)** ([samuel.giuliani@uam.es](mailto:samuel.giuliani@uam.es))

**Bibliography (textbooks):**

- *From Nucleons to Nucleus.* J. Suhonen.
- *The Nuclear Shell Model.* K. Heyde.
- *Fundamentals of Nuclear Models.* D. J. Rowe, J. L. Wood.
- *The nuclear many-body problem.* P. Ring, P. Schuck.