

**TIMETABLE**  
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	Monday 20/03/2023	Tuesday 21/03/2023	Wednesday 22/03/2023	Thursday 23/03/2023	Friday 24/03/2023
09:30-11:00		Second Quantization	Interacting Shell Model	Deformed Independent Particle Model	Hartree-Fock-Bogolyubov
11:00-11:15	Break	Break	Break	Break	Break
11:15-12:45		Second Quantization	Interacting Shell Model	Variational Principle. Hartree-Fock Method	Hartree-Fock-Bogolyubov
12:45-13:00	Break	Break	Break	Break	Break
13:00-13:30		tutoring	tutoring	tutoring	tutoring

**TIMETABLE**  
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	Monday 27/03/2023	Tuesday 28/03/2023	Wednesday 29/03/2023	Thursday 30/03/2023	Friday 31/03/2023
09:30-11:30	Hartree-Fock-Bogolyubov	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	
13:30-14:00	tutoring	tutoring	tutoring	tutoring	tutoring

\*This schedule is tentative and may be subject to change slightly.

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: <https://eu.bbcollab.com/guest/3d60d50a4a004e2ca95f60b0a77e7af2>

### 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))
- Tomás Rodríguez (UAM) ([tomas.rodriguez@uam.es](mailto:tomas.rodriguez@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.