

Conducător doctorat: CS I dr. Mária-Magdolna ERCSEY-RAVASZ

Nr. locuri la doctorat: 1

Loc 1/1 - bugetat cu bursă (sesiunea iulie)

Membrii comisiei de admitere:

- 1 CSI dr. Mária-Magdolna ERCSEY-RAVASZ
2. Conf. dr. Ferenc JÁRAI-SZABÓ
3. Prof. dr. Ladislau NAGY

Tematica pentru examen:

1. Schrödinger equation for a free electron in electromagnetic field (dipole approximation, gauge transformations).
2. Processes induced by ultrashort laser pulses in atomic systems (Ionization mechanisms, high harmonic generation).
3. Time-dependent perturbation theory.

Tematica interviu:

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Bibliografie

1. C. J. Joachain, N. J. Kylstra, R. M. Potvliege, *Atoms in Intense Laser Fields*, Cambridge University Press, 2012
2. B. H. Bransden, C. J. Joachain, *Quantum Mechanics*, Prentice Hall, 2000.
3. F. Krausz, M. Ivanov, *Attosecond physics*, Rev. Mod. Phys. 81, 163 (2009).

Data, ora și locul examenului:

22.07.2026, ora 10.00, sala 209

Membrii comisiei de îndrumare și integritate academică

1. prof. dr. Ladislau Nagy (UBB)
2. lect. dr. Sándor Borbély (UBB)
3. CSI dr. Attila Bende (INCDTIM)