

Program of the visit
by Professor Laifa Boufendi (13.11-08.12) at KBTU
within the framework of the "Inviting foreign scientists" project
Orlean University (France)

Date	Type of work and title	Time and duration	Room no.	
14.11.23 Tuesday	Lecture: Dusty plasma. Introduction.	10 ⁰⁰ -12 ⁰⁰	342	WEEK 1
	Practice: Dusty plasma. Methods of charging.		<i>Hybrid</i>	
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	12 ⁰⁰ -13 ⁰⁰	415	
14.11.23 Tuesday	Lecture: Thermodynamic properties dusty plasma	14 ⁰⁰ -16 ⁰⁰	<i>Online</i>	
	Practice:: Equilibrium in plasma. Relaxation processes. Complete thermodynamic equilibrium. Partial equilibrium.			
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	16 ⁰⁰ -17 ⁰⁰	415	
15.11.23 Wednesday	Lecture: Equilibrium in plasma. Degree of ionization.	14 ⁰⁰ -16 ⁰⁰	<i>Online</i>	
	Practice: The energy of ionization of an atom.			
	Training seminars for young scientists and doctoral students	16 ⁰⁰ -17 ⁰⁰	415	
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	17 ⁰⁰ -18 ⁰⁰	415	
21.11.23 Tuesday	Lecture: Saha formula. Diffusion coefficient.	10 ⁰⁰ -12 ⁰⁰	342	WEEK 2
	Practice: Viscous friction. Average thermal velocity of particles			
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	12 ⁰⁰ -13 ⁰⁰	415	
21.11.23 Tuesday	Lecture: Self-diffusion. Heat conduction of plasma.	14 ⁰⁰ -16 ⁰⁰	<i>Online</i>	
	Practice: The dielectric constant of the plasma.			
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	16 ⁰⁰ -17 ⁰⁰	415	
22.11.23 Wednesday	Lecture: Plasma in magnetic field. Drifting motion of particles in plasma.	14 ⁰⁰ -16 ⁰⁰	<i>Online</i>	
	Practice: Varieties drift motion of particles in plasma.			
	Training seminars for young scientists and doctoral students	16 ⁰⁰ -17 ⁰⁰	415	
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	17 ⁰⁰ -18 ⁰⁰	415	
28.11.23 Tuesday	Lecture: Magnetohydrodynamic method of plasma description.	10 ⁰⁰ -12 ⁰⁰	342	WEEK 3
	Practice: A model of a conductive fluid. Approximation of ideal conductivity			
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	12 ⁰⁰ -13 ⁰⁰	415	
28.11.23 Tuesday	Lecture: Fluctuations and waves in plasma. Plasma instability. Oscillations in cold plasma.	14 ⁰⁰ -16 ⁰⁰	<i>Online</i>	
	Practice: Wave propagation in a plasma in the presence in the presence of a magnetic field. Langmuir oscillations and waves in plasma			
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	16 ⁰⁰ -17 ⁰⁰	415	

29.11.23 Wednesday	Lecture: Fluctuations and waves in plasma. Plasma instability. Oscillations in cold plasma.	14 ⁰⁰ -16 ⁰⁰	Online	
	Practice: Wave propagation in a plasma in the presence in the presence of a magnetic field. Langmuir oscillations and waves in plasma			
	Training seminars for young scientists and doctoral students	16 ⁰⁰ -17 ⁰⁰	415	
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	17 ⁰⁰ -18 ⁰⁰	415	
05.12.23 Tuesday	Lecture: Plasma in space. Cosmic rays.	10 ⁰⁰ -12 ⁰⁰	342	WEEK 4
	Practice: Cold plasma in the ionosphere and plasmosphere of the Earth. Hot magnetospheric plasma.		Hybrid	
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	12 ⁰⁰ -13 ⁰⁰	415	
05.12.23 Tuesday	Lecture: Gas discharge. Townsend coefficient. Electron avalanches.	14 ⁰⁰ -16 ⁰⁰	Online	
	Practice: Avalanche series. Avalanche amplification. The mechanism of Townsend breakdown. Paschen's law.			
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	16 ⁰⁰ -17 ⁰⁰	415	
06.12.23 Wednesday	Lecture: Thermonuclear fusion. Plasma traps.	14 ⁰⁰ -16 ⁰⁰	Online	
	Practice: Containment of dense plasma. Devices and operation of tokomak. Principle of operation of the tokomak.			
	Training seminars for young scientists and doctoral students	16 ⁰⁰ -17 ⁰⁰	415	
	Extracurricular activities: Consultations and discussions with master's and doctoral students, young scientists	17 ⁰⁰ -18 ⁰⁰	415	

Link:

Microsoft Teams (Scheduled lecture/practice from 10:00 to 12:00)

https://teams.microsoft.com/l/meetup-join/19%3ameeting_M2Y2YjYwZGUtZmMwZS00MTNiLWE1OGQtZWm3ZWJlZWJjZDFm%40thread.v2/0?context=%7b%22Tid%22%3a%2257081b5e-e66a-4993-8eaf-15b0b309293f%22%2c%22Oid%22%3a%22a60af56b-0eaa-4f1c-94e3-20a5f8e40b5e%22%7d

Zoom Scheduled lecture/practice from 14:00 to 18:00

<https://us06web.zoom.us/j/87625844528?pwd=WcQ97wa7eJXH71NeNUqqYG0gPlsD8T.1>

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