

SCUOLA
NORMALE
SUPERIORE

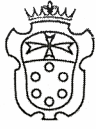
RELAZIONE ATTIVITA' ANNUALE DEI PERFEZIONANDI/DOTTORANDI – PRIMO ANNO
REPORT ON THE PHD ACTIVITY – FIRST YEAR

NOME E COGNOME NAME AND SURNAME	Vladislav Khaustov
DISCIPLINA/PHD COURSE	Nanoscience

CORSI FREQUENTATI CON SOSTENIMENTO DI ESAME FINALE ATTENDED COURSES (WITH FINAL EXAM)	VOTAZIONE RIPORTATA MARK	NUMERO DI ORE HOURS
Nanostructured materials	27	40
Physics of nanostructures		40
Theory of Many-Body Systems		40

CORSI FREQUENTATI SENZA SOSTENIMENTO DI ESAME FINALE ATTENDED COURSES (ATTENDANCE ONLY)	NUMERO DI ORE HOURS
Italian language Course A1.2	40

ALTRE ATTIVITÀ FORMATIVE (SEMINARI, WORKSHOP, SCUOLE ESTIVE, ECC.) – DESCRIZIONE OTHER PHD ORIENTED ACTIVITIES (SEMINARS, WORKSHOPS, SUMMER SCHOOLS, ETC) – DESCRIPTION	NUMERO DI ORE HOURS
Horizon 2020 and Building of the European Research Area	20
Graphene Study 2019	30



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ATTIVITÀ DI RICERCA EVENTUALMENTE SVOLTA (MAX. 3.000 CARATTERI)
RESEARCH ACTIVITY (MAX. 3000 CHARACTERS)

During the first academic year, I performed the following activities:

- 1) I attended the following courses: Nanostructured materials, Physics of Nanostructures, Theory of Many-Body systems (40 hours each). I have already passed the exam on Nanostructured Materials with a score of 27/30. Dates for the remaining exams have not yet been set.
- 2) I attended additional courses, seminars and scientific schools: I attended series of lectures on the Graphene Study school where I participated in Poster session with the results of my previous work, Italian language course (A 1.2 level), Horzion 2020 workshop. 90 hours in a total.
- 3) I participated in following stages organized by the NEST laboratory: "Electrical and optical characterization via Fourier Transform Infrared Spectroscopy of quantum cascade laser resonators operating at Terahertz frequencies" and "Optical characterization of metasurfaces and photonic crystals". I passed trainings in the following experimental facilities: Scanning tunneling microscopy, Raman spectroscopy.

The following article has been published: "Analysis and experimental research on graphene's electron transparency and its application for the development of micro-and nanoelectronic devices. Diamond and Related Materials, 94, 209-217."



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PUBLICATIONS (IF AVAILABLE)

Il'ichev, E., Khaustov, V., Kuleshov, A., Migunov, D., Minakov, P., Nabiev, R., Petrukhin, G., Teverovskaya, E. & Rychkov, G. (2019). Analysis and experimental research on graphene's electron transparency and its application for the development of micro-and nanoelectronic devices. *Diamond and Related Materials*, 94, 209-217.

DATA		FIRMA	
DATE	27.09.2019	SIGNATURE	