



Department of Physics



Fall 2017

Colloquia

Andrey Varlamov

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Physicist in the kitchen

How heat propagates in media, what is the difference between pizza baking in the traditional wood oven and in the electric one, why tastes of the boiled meat and the grilled one are so different, how to scientifically calculate cooking time of the soft-boiled duck egg and spaghetti, why cin-cin with crystal glasses filled by sparkling wine is not accompanied by nice canorous sound, why vodka usually contains around of 40 % of alcohol, why professional barman varies the degree of coffee beans grounding depending on weather, and many other questions of surrounding gastronomic universe are discussed in this lecture.

Andrey Varlamov was born April, 25, 1954 in Kiev (Ukraine). In 1977 got Master's degree cum laude at the Moscow Institute for Physics and Technology. In 1980, under supervision of Alex Abrikosov, he was awarded his Ph.D. in Condensed Matter Physics. He worked as a researcher, associate professor, and full professor of the Department of Theoretical Physics of the Moscow Institute for Steel and Alloys (Technological University), then as the fellow at the Condensed Matter Theory Group of Argonne National Laboratory (USA). Since 1999 he has been the principal investigator of the Institute of Superconductivity, Innovative Materials, and Devices of the Italian National Research Council (CNR-SPIN). Andrey Varlamov was awarded the USSR State Prize in Physics for young scientists (1986), the degree of Doctor of Sciences (Habilitation) in Condensed Matter Physics (1988), degrees of Doctor Philosophiae Honoris Causa of Bogolyubov Institute for Theoretical Physics (Ukraine, 2011), Mediterranean Institute of Fundamental Physics (Italy, 2014), title of the "Honorable Scientist of the Russian Federation" (2016). He is also a member-correspondent of Istituto Lombardo Accademia di Scienze e Lettere (Milano, 2009). His book "Le kaleidoscope de la Physique" was awarded Prix Grand Public Roberval (France, 2015). His main fields of scientific interests are: superconductivity, theory of metals, theory of phase transitions, and nanophysics. The author of fifteen books, five monographic review articles, 140 scientific papers, A. Varlamov is also a member of the Scientific Council of the Genova Festival of Science, the Editorial Board of the Russian Academy of Sciences popular science magazine "Kvant" (where for many years he executed the duties of the vice-Editor in Chief).



November 1
Wednesday



UNAM
SU-01



15:40

The Department of Physics Seminars are designed to address a non-specialist, broad audience and introduce topics of contemporary research through lectures by leading experts. We warmly invite all members of the student body, including undergraduates enrolled in any programme.

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