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February 13, 2018

Dear Members of ID Committee,

I am writing this letter to support the application of the course "PHYS2443 Modern Physics" for the designation of Interdisciplinary Course. This course has been offered by the Physics Department since 1999. At that time the course was lectured by the only one instructor. This course presents the main developments in the Physics of the 20th century, which dramatically changed the world as we know it: the understanding the inner structure of atom, the development of the atomic bomb, the discovery of the laser, the development of the first computers with semiconductor chips, quantum computing are only some of the mind opening topics covered in "Modern Physics".

During the past decade, as the department expanded by hiring new faculty members, this course went through a series of changes and improvements. Currently, "Modern Physics" is conducted a team of experts in different field of physics. In particular, during the Spring semester, the course is conducted by four faculty members:

- Prof. Oleg Berman is teaching the first part, related with **Quantum Theory**.
- Prof. Giovanni Ossola is teaching the second part, related with **Nuclei, Radioactivity, Elementary Particles**.
- Prof. Darya Krym is teaching the third part, related with **Relativity and Cosmology**.
- Prof. Roman Kezerashvili is conducting the Lab component of the course.

As a further proposed change, in order to provide students with a broader perspective on the very important topics covered in this course, we are planning to include in the curriculum a series of invited lectures. Such lectures will be presented by experts working in scientific and technological disciplines, as well as on society in general, such as history, chemistry, quantum computing, and others.

This course will also provide advanced non-physics students who have completed the calculus based PHYS 1441-1442 sequence, with an ID course option that matches with the skills that they acquired and it is stimulating and beneficial to their education.

The support Letters from Guest Lecturer are attached

Best wishes,

R. Kezer
Roman Kezerashvili