

Department of Physics Seminar

Introduction to Medical Physics & Radiation Physics Basics

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Abstract:

Medical Physics has come a long way in the last 60 years or so, catching the interests of researchers from variety of different fields. The main goal of medical physics research is to apply physics and scientific knowledge in medicine to improve current technology in medical diagnostic and/or therapeutic treatments. This seminar will start with a brief introduction on general medical physics to give the audience some ideas about a few common research streams. Then focus will shift more on radiation oncology physics, which is one of the more clinically relevant subfields in medical physics. Radiation physics will be discussed from four aspects: basics physics, radiation dosimetry, treatment planning, and radiation protection. A clinical medical physicist in a radiation oncology department will be involved in all these aspects. The approach of this presentation will be attempted from both theoretical and clinical points of view in order to demonstrate the physics concepts and their applications.

+ Date

Wednesday
February 28, 2018

+ Time

2:30 – 4:00 P.M.

+ Location

Library Building
5-175

+ Contact

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Everyone welcome
Light refreshments served