

Title: A mathematical study of cancer chemotherapy

Speaker: C. K. Nanditha, IISER-TVM

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Venue: PSB1203 and Google Meet

Abstract

Cancer is one of the deadly diseases of all time and chemotherapy is an efficient and commonly used treatment method for cancer. However, the improper administration of injecting drugs can kill normal cells along with the tumor cells. Hence, the drug should be injected in a way that reduces the toxic effect of the treatment on normal cells. Our aim is to propose a treatment protocol that destroys the maximum number of tumor cells whilst keeping normal cells intact. In this talk, we discuss how an optimal strategy can be followed in the treatment mechanism. We validate the theoretical results through numerical examples.