



# "What can Sine function do for us?"

Thursday, March 13, 2:30 pm  
Pickard Hall, Room 304

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## **Abstract:**

The sine function  $t \rightarrow \sin t$  is a common tool in describing oscillatory phenomena, occurring in many fields of science.

Linear combinations of sine functions like

$$\sum_{k=0}^n A_k \sin(kt + \phi_k) \quad (*)$$

also describe oscillatory processes, with any degree of accuracy, provided we deal with periodic processes.

More general linear combinations than (\*), namely

$$\sum_{k=0}^n A_k \sin(\lambda_k t + \phi_k) \quad (**)$$

with arbitrary real  $\lambda_k$ , describe almost periodic processes, more often encountered in nature and technology than the periodic ones.

In a concise manner, the lecture is aimed at giving a glimpse on almost periodicity.

Graduate students are kindly invited.

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The Math Department will provide refreshments 30 min. prior to the presentation.