

*Department of Mathematics,  
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## **Food for Thought**

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### **A (hopefully gentle) introduction to general relativity**

#### **Abstract:**

In 2020, more than a hundred years after Einstein's publication of his theory of gravitation, half of the Nobel prize in Physics was awarded to Sir Roger Penrose "for the discovery that black hole formation is a robust prediction of the general theory of relativity". In this talk, I will present the basic mathematical formalism of general relativity, black holes, and their connections with modern analysis.

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4:00 PM

HSS 4025

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