

LECTURE SERIES

Mathematical Science Literature

April 18, 20, & 22, 2022

9:30–11:00 am - *Virtual*

Three Introductory Lectures on Game Theory for Mathematicians



Eric Maskin
Harvard University

April 18, 2022

Game Theory Basics and Classical Existence Theorems

Games in extensive and normal form. Equilibrium existence theorems by Nash, von Neumann, and Zermelo.

April 20, 2022

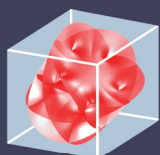
Mechanism Design

Given a social goal, under what circumstances can we design a game to achieve that goal?

April 22, 2022

Auction Theory

Equivalences among four standard auctions: the high-bid auction (the high bidder wins and pays her bid); the second-bid auction (the high bidder wins and pays the second-highest bid); the Dutch auction (the auctioneer lowers the price successively until some bidder is willing to pay); and the English auction (bidders raise their bids successively until no one wants to bid higher).



HARVARD UNIVERSITY
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SCIENCES AND APPLICATIONS

This lecture will be held virtually.

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