

Department Talk

The Department of Economic Sciences invites you for the online talk by Dr. Umang Bhaskar from TIFR as per the following schedule:

Title: Algorithms and Relaxations for the Fair Division of Goods

Speaker: Dr. Umang Bhaskar, TIFR

Date and Time: 15/12/2021 (11am)

Venue: L1, LHC

Abstract: We will survey results for the fair allocation of goods to agents, with some emphasis on the computation of such allocations. A popular notion of fairness of an allocation is envy-freeness, where an allocation is envy-free if no agent prefers the bundle of another agent to her own. Fairness is not the only consideration for an allocation - one would also like the allocation to be efficient. For divisible goods, envy-free as well as efficient allocations are known to exist; however, if items are indivisible - i.e., they must be allocated integrally - then envy-free allocations may not exist. We will describe a well-known relaxation of envy-freeness, give algorithms for computing allocations that satisfy this relaxation, and mention a number of open problems.