سمینارهفتگی گروه ماده چگال نرم

The origin of heavy tails in human dynamics

Hamid Seyed-Allaei

The dynamics of many social, technological and economic phenomena are driven by individual human actions, turning the quantitative understanding of human behavior into a central question of modern science. Current models of human dynamics, used from risk assessment to communications, assume that human actions are randomly distributed in time and thus well approximated by Poisson processes. In contrast, there is increasing evidence that the timing of many human activities, ranging from communication to entertainment and work patterns, follow non-Poisson statistics, characterized by bursts of rapidly occurring events separated by long periods of inactivity. we will see that the bursty nature of human behavior is a consequence of a decision based queuing process : when individuals execute tasks based on some perceived priority, the timing of the tasks will be heavy tailed.

زمان :شنبه 87/2/21 ، ساعت 15:30

مکان: آمفی تئاتر دانشکده فیزیک

قطب ماده چگال و سیستمهای پیچیده