

המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום ראשון, 7 בדצמבר, 2025

בשעה 12:00 – 13:00

ב-101 Math

ההרצאה

Tournaments, in Dependence Negative Uniqueness and Scores, Extreme of Distribution Maximum the of

תינתן על-ידי

Maryland) of (University Malinovsky Yaakov

תקציר: Negative dependence among participants' outcomes naturally arises in various models of probabilistic tournaments and plays an important role in the approximation of Poisson theorems, asymptotic results, including limit theorems, orthant negative dependence, extremal behavior of scores. In this work, we present a unified approach to the study of these phenomena. In particular, we establish stronger negative dependence results for tournaments, showing that the maximum score is uniquely determined by the distribution of the second-highest score. This result is proved by a novel approach to the study of dependence of order statistics. We illustrate the general theory with several examples, including the case of independent and identically distributed scores.

model (paired-comparison model tournament round-robin the using approach our
of probability the that prove and problem open an resolve also We statistics). in
grows. players of number the as one to tends winner unique a having

אנא שימו לב לשינוי ביום ושעה!