

המחלקה למתמטיקה, בן-גוריון

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## הסתברות ותורה ארגודית

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ביום שלישי, 13 ביוני, 2017

בשעה 10:50 – 12:00

ב101- Math

ההרצאה

### Markov Reversible in Estimation Time Mixing Path Sample Single a from Chains

חינתן על-ידי

(BGU) Kontorovich Aryeh

תקציר: We propose a procedure (the first of its kind) for computing a fully reversible finite a of t\_mix time mixing the traps that interval data-dependent computed is interval The level. confidence prescribed a at chain Markov ergodic not does and chain, Markov the from path sample finite-length single a from contrast in stands This chain. the of parameters any of knowledge the require a require or estimates, point provide only either which approaches, previous to knowledge. prior additional or mechanism, reset strongly is which t\_relax, time relaxation the around constructed is interval The roughly zero to converges interval the of width the and time, mixing the to related lower and Upper path. sample the of length the is n where rate,  $\sqrt{n}$  a at constant-factor achieve to required samples of number the on given are bounds

restrictions further unless that, indicate bounds lower The accuracy. multiplicative  
before level accuracy this achieve can procedure no chain, the on placed are  
future Finally, average. the on times  $\Omega(t_{\text{relax}})$  least at state each seeing  
identified. are research of directions  
Szepesvári Csaba and Hsu Daniel with work Join