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30 אפריל 2009

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## פרס ארדש למתמטיקה תשס"ט

פרס ארדש למתמטיקה לשנת תשס"ט (2009) מוענק לפרופסור **אילון לינדנשטראוס** מהאוניברסיטה העברית. ציטוט נימוקי ועדת הפרס מופיע להלן.

### 2009 Erdős Prize in Mathematics

The 2009 Erdős Prize in Mathematics is awarded to Professor **Elon Lindenstrauss** from the Hebrew University. The Prize Committee's citation follows.

The Committee on the Erdos Prize for 2009 recommends unanimously that the Prize be awarded to Professor Elon Lindenstrauss of the Hebrew University of Jerusalem for his work in ergodic theory and, specifically, its applications to number theory.

Among Lindenstrauss's many deep contributions to this area, one may cite, first of all, his spectacular solution of the problem of quantum unique ergodicity for arithmetic hyperbolic surfaces, as well as very decisive progress (with M. Einsiedler and A. Katok) towards the solution of Littlewood's Conjecture on the joint approximation of real numbers.

Other notable achievements include his proof (with Einsiedler, Ph. Michel, and A. Venkatesh) of a cubic analogue of Duke's equidistribution theorem for closed geodesics on the modular surface and his solution (with J. Bourgain, A. Furman, and Sh. Mozes) of the equidistribution problem for actions of linear groups on tori posed by Y. Guivarc'h.

Elon Lindenstrauss's work in this area is a profound synthesis of beautiful new ideas with a deep understanding and generalization of known results. It represents a high-water mark in the application of ergodic theory to number theory and a triumph for Israeli mathematics, fully worthy of the Erdos Prize for 2009.

Prize Committee Chairman  
Professor Lawrence Zalcman  
Bar Ilan University