



**School of Mathematical Sciences**  
The Raymond and Beverly Sackler  
Faculty of Exact Sciences  
Tel Aviv University

**בית הספר למדעי המתמטיקה**  
הפקולטה למדעים מדויקים  
ע"ש ריימונד וברלי סאקלר  
אוניברסיטת תל אביב

12.3.19

Prof Alex Lubotzky  
President of the IMU

On behalf of the decision committee for the 2019 Haim Nessayahu Prize, I would like to inform you that we have selected the Ph.D. thesis of Yuval Peled as most worthy of this prestigious prize. We would like to state that the three final candidates were all excellent, with outstanding results, impressive track record and stellar recommendations. The decision process was difficult, and we expect all of them to have a very bright future in academia.

Yuval Peled's thesis includes completely new, extraordinary and far reaching results, some of them published in a paper in the Annals of Mathematics. In some of the most impressive parts of his thesis, he describes high dimensional random simplicial complex analogues of classical phase transition results for geometric and topological properties of random graphs, such as the appearance of cycles in the top homology, connectivity questions as well as simple connectivity, and more. The methods are novel, and new structures are discovered and described. His results push the field of Extremal Topological Combinatorics to new and exciting directions. He solves outstanding problems that were considered out of reach, and his dissertation is impressive, substantial and novel.

The committee has declared that the thesis work of Yuval Peled is highly worthy of the Haim Nessayahu prize of 2019.

Sincerely yours

Professor Shiri Artstein-Avidan,  
School of Mathematical Science,  
Tel Aviv University,

Professor Toufik Mansour,  
Department of Mathematics,  
University of Haifa,

and

Professor Baruch Solel,  
Department of Mathematics,  
Technion.