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### THE 2021 MICHAEL BRIN PRIZE IN DYNAMICAL SYSTEMS

THE MICHAEL BRIN PRIZE IN DYNAMICAL SYSTEMS is an international prize endowed by Professor Michael Brin of the University of Maryland in 2008 to recognize mathematicians who have made substantial impact in dynamical systems and related fields at an early stage of their careers. The prize is now awarded every year at the University of Maryland Spring Dynamical Systems conference or at the Penn State Fall Workshop in Dynamical Systems in turn. The prize is awarded for specific contributions and currently carries a cash award of US \$18,000.

The tenth MICHAEL BRIN PRIZE IN DYNAMICAL SYSTEMS was awarded to **TIM AUSTIN** of the University of California, Los Angeles (UCLA), on October 30th, 2021. The award ceremony took place as part of the 32nd *Workshop in Dynamical Systems and Related topics* at The Pennsylvania State University.

TIM AUSTIN was recognized for his innovative proof of the weak Pinsker conjecture, for his groundbreaking approach to non-conventional ergodic theorems for multiple averages via the theory of pleasant extensions, and his contributions to geometric group theory.

The selection committee of the MICHAEL BRIN PRIZE IN DYNAMICAL SYSTEMS was composed of Viviane Baladi, Giovanni Forni (Chair), Helmut Höfer, Elon Lindenstrauss, Carlangelo Liverani, Hee Oh, and Federico Rodriguez Hertz.



Giovanni Forni and Tim Austin

TIM AUSTIN received his PhD in 2010 from UCLA under the supervision of Terence Tao. Since then he has been a Clay Research Fellow (2010-2014) and has held positions at the Courant Institute of Mathematical Sciences (2012-2017) and at UCLA (2017-2023). Since Fall 2023 he is a Regius Professor at the University of Warwick in the UK. In 2020 he was the recipient of a New Horizons Prize in Mathematics.

#### PRIZE WORK OF TIM AUSTIN

*Measure concentration and the weak Pinsker property*, *Publ. Math. Inst. Hautes Études Sci.*, **128** (2018), 1–119.

*On the norm convergence of non-conventional ergodic averages*, *Ergodic Theory Dynam. Systems*, **30** (2010), 321–338.

*Amenable groups with very poor compression into Lebesgue spaces*, *Duke Math. J.*, **159** (2011), 187–222.

#### PRIZE LECTURES

The award ceremony included two one-hour lectures about various aspects of the winner’s work by Jean-Paul Thouvenot (LPSM, Université de Paris) and Terence Tao (UCLA). An article of Jean-Paul Thouvenot based on his lecture appears in the present volume of the *Journal of Modern Dynamics*.

JEAN-PAUL THOUVENOT: *A presentation of some of the ideas in Tim Austin’s work on the weak Pinsker property*

TERENCE TAO: *Some results of Tim Austin*



Tim Austin with Terence Tao and Jean-Paul Thouvenot (top display)