

Quantitative Linear Algebra Tutorials

Tuesday March 20, 2018

- 8:00–8:50 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:50–9:00 *Opening Remarks*
- 9:00–9:50 **Nikhil Srivastava** (University of California, Berkeley (UC Berkeley))
Expected Characteristic Polynomials and Asymptotic Optimality I
- 10:00–10:20 *Break*
- 10:20–11:10 **Terence Tao** (University of California, Los Angeles (UCLA))
Topics in random matrix theory: the semicircle law, inverse Littlewood-Offord theory, least singular values, and the circular law I
- 11:20–11:50 *Core Orientation with IPAM Staff*
- 11:50–1:45 *Lunch (on your own)*
- 1:45–2:35 **Nikhil Srivastava** (University of California, Berkeley (UC Berkeley))
Expected Characteristic Polynomials and Asymptotic Optimality II
- 2:45–2:55 *Break*
- 2:55–3:45 **Tim Austin** (University of California, Los Angeles (UCLA))
Some topics in measure concentration I

Wednesday March 21, 2018

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Lewis Bowen** (University of Texas at Austin)
Amenability, soficity and entropy theory I
- 10:00–10:20 *Break*
- 10:20–11:10 **Tim Austin** (University of California, Los Angeles (UCLA))
Some topics in measure concentration II
- 11:20–11:40 *Break*

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- 11:40–12:30 **Nikhil Srivastava** (University of California, Berkeley (UC Berkeley))
Expected Characteristic Polynomials and Asymptotic Optimality III
- 12:40–2:30 *Lunch (on your own)*
- 2:30–3:20 **Lewis Bowen** (University of Texas at Austin)
Amenability, soficity and entropy theory II
- 3:30–3:50 *Break*
- 3:50–4:40 **Adrian Ioana** (University of California, San Diego (UCSD))
An introduction to von Neumann algebras I

Thursday March 22, 2018

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Terence Tao** (University of California, Los Angeles (UCLA))
Topics in random matrix theory: the semicircle law, inverse Littlewood-Offord theory, least singular values, and the circular law II
- 10:00–10:20 *Break*
- 10:20–11:10 **Lewis Bowen** (University of Texas at Austin)
Amenability, soficity and entropy theory III
- 11:20–11:40 *Break*
- 11:40–12:30 **Adrian Ioana** (University of California, San Diego (UCSD))
An introduction to von Neumann algebras II
- 12:40–2:30 *Lunch (on your own)*
- 2:30–3:20 **Terence Tao** (University of California, Los Angeles (UCLA))
Topics in random matrix theory: the semicircle law, inverse Littlewood-Offord theory, least singular values, and the circular law III
- 3:30–3:50 *Break*
- 3:50–4:40 **Lewis Bowen** (University of Texas at Austin)
Amenability, soficity and entropy theory IV

Friday March 23, 2018

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Tim Austin** (University of California, Los Angeles (UCLA))
Some topics in measure concentration III
- 10:00–10:20 *Break*

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10:20–11:10 **Adrian Ioana** (University of California, San Diego (UCSD))
An introduction to von Neumann algebras III

11:20–12:00 *Discussion & Conclusion*

