

**Sydney Random Matrix Theory Workshop**  
**The University of Sydney**  
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The Sydney Random Matrix Theory Workshop brought together experts on a variety of random matrix theory topics — computational methods, free probability, Riemann–Hilbert problems and applications. Random matrix theory is an exciting research area, undergoing active development, and the workshop gave an opportunity for international and Australian researchers across these different subfields to interact. The workshop lasted for four days, with six talks and one discussion session per day. The days were roughly themed: the first day was on computation, the second on two matrix models and determinantal point processes with boundary conditions, the third on normal random matrices (i.e. matrices with spectrum in the complex plane but unitary/orthogonal eigenvectors), and the last day on various topics with a discussion on random linearized Hamiltonians.

The discussion sessions were hosted by different participants each day, including Alan Edelman (MIT) on computation, Dong Wang (NU Singapore) on determinantal point process with boundary conditions, Pavel Bleher (IUPUI) on normal random matrices and Peter Miller (U Michigan) on random linearized Hamiltonians. Most of the discussion session contained an introduction to a topic of ongoing research with audience participation. This allowed for attendees to make connections to other research areas, and to help with understanding the problems undergoing active research.

The AustMS support of the workshop was extremely beneficial, helping to partially support several prominent early career researchers in the field (including the most recent awardee of the SIAM Richard C. DiPrima Prize), who may not have otherwise been able to attend.

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