EXTRACT FROM OP-SF NET

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Subject: Report on Conference on "Random Matrices and Jacobi Operators"

A conference on "Random Matrices and Jacobi Operators" was held at the Mittag-Leffler Institute, Djursholm, Sweden, during the period May 19-23, 2014. It was organized by Maurice Duits and Jonathan Breuer and went along very well due to the superb management of Maria Weiss. Some of the talks have been posted and can viewed at the link http://www.mittag-leffler.se/?q=0519 The talks mostly broke down into two main areas: Random matrices and Jacobi Operators. Two of the most interesting talks given on the last day were presented in a collaboration between Tom Claeys and Igor Krasovsky regarding the critical asymptotics of Toeplitz matrices around a transition point. They obtained a formula at the transition point in terms of a solution of a particular Painleve equation which gives a resolution, positively, of a conjecture of Dyson made over 50 years ago. Tom Claeys was the winner of the first Szego Prize.