

International Congress of Mathematicians

ICM 2010

Hyderabad, India

Programme

Thursday, August 19, 2010

Day 1

| | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 09:30-12:30 | Opening Ceremony Award of Fields Medals, and the Nevanlinna, Gauss and Chern Prizes | Halls 3 & 4 |
| 12:30-14:00 | Lunch | |
| 14:00-16:30 | Laudations <i>Chair: J. Palis Junior</i> | Hall 4 |
| 14:00-14:25 | H. Furstenberg <i>On the work of Fields Medallist</i> | |
| 14:30-14:55 | Elon Lindenstrauss <i>J. Arthur</i> <i>On the work of Fields medallist</i> | |
| 15:00-15:25 | Ngo Bao Chau <i>H. Kesten</i> <i>On the work of Fields Medallist</i> | |
| 15:30-15:55 | Stanislav Smirnov <i>H-T. Yau</i> <i>On the work of Fields Medallist</i> | |
| 16:00-16:25 | Cedric Villani <i>G. Kalai</i> <i>On the work of</i> <i>Nevanlinna Prize Winner</i> | |
| 16:45-17:45 | Daniel Spielman Abel Lecture S. R. S. Varadhan <i>Large Deviations</i> <i>Chair: K. R. Parthasarathy</i> | Hall 4 |

Friday, August 20, 2010

Day 2

| | | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 09:30-12:30 | Event connected to the Gauss and Chern Prizes <i>Chair: L. Lovasz,</i> President, IMU | Hall 4 |
| 09:30-09:35 | Welcome by President, IMU | |
| 09:35-09:45 | Greetings from Prof. J. Simons (on video) | |
| 09:45-10:05 | Ms. May Chu <i>Prof. Chern - Reminiscences</i> | |
| 10:05-10:35 | Robert Bryant <i>S. S. Chern - His mathematics</i> | |
| 10:35-11:20 | Lecture on the work of L. Nirenberg , the Chern Prize winner Yanyan Li | |
| 11:20-11:45 | Coffee Break | |
| 11:45-12:30 | Lecture on the work of Y. Meyer , the Gauss Prize winner I. Daubechies | |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Special Lecture by Fields Medallist Stanislav Smirnov <i>Discrete complex analysis and probability</i> <i>Chair: H. Kesten</i> | Hall 4 |
| 15:00-18:00 | Invited Talks, Panel Discussion and Short Communications in Parallel Sessions | |
| 18:00-19:30 | Dance Programme | Hall 3 |
| 20:00 | Conference Dinner | |

Saturday, August 21, 2010

Day 3

| | | |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 09:00-10:00 | Plenary Lecture 1 Artur Avila <i>Dynamics of renormalization operators</i> Chair: E. Ghys | Hall 4 |
| 10:15-11:15 | Plenary Lecture 3 Irit Dinur <i>Probabilistically checkable proofs and codes</i> Chair: H. Lenstra | Hall 4 |
| 11:30-12:30 | Plenary Lecture 3 Carlos Kenig <i>The global behaviour of solutions to critical nonlinear dispersive equations</i> Chair: J. Ball | Hall 4 |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Special Lecture by Nenvanlinna Prize Winner Daniel Spielman <i>Algorithms, graph theory and linear equations in Laplacian matrices</i> Chair: G. Kalai | Hall 4 |
| 15:00-18:00 | Invited Talks, Poster Sessions and Short Communications in Parallel Sessions | |
| 18:00-20:00 | Panel Discussion: Pipeline Report | Hall 4 |

Sunday, August 22, 2010

Day 4

| | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 09:00-10:00 | Plenary Lecture 4 David Aldous <i>Exchangeability and continuum limits of discrete random structures</i> Chair: Z-M. Ma | Hall 4 |
| 10:15-11:15 | Plenary Lecture 5 R. Parimala <i>Arithmetic of linear algebraic groups over two-dimensional fields</i> Chair: S. Ramanan | Hall 4 |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Special Lecture by Fields Medallist Ngo Bao Chau <i>Endoscopy of automorphic forms</i> Chair: J. Arthur | Hall 4 |
| 15:00-18:00 | Invited Talks, Panel Discussion and Short Communications in Parallel Sessions | |
| 18:00-19:00 | Short Communications in Parallel Sessions | |

Monday, August 23, 2010
Free Day

Day 5

Tuesday, August 24, 2010

Day 6

| | | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 09:00-10:00 | Plenary Lecture 7 A. N. Parshin <i>Representations of higher adelic groups and arithmetics</i> Chair: M. S. Narasimhan | Hall 4 |
| 10:15-11:15 | Plenary Lecture 8 Jean-Michel Coron <i>On the controllability of nonlinear partial differential equations</i> Chair: L. Nirenberg | Hall 4 |
| 11:30-12:30 | Plenary Lecture 9 Shige Peng <i>Backward stochastic differential equations, nonlinear expectations and their applications</i> Chair: S. R. S. Varadhan | Hall 4 |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Special Lecture by Fields Medallist Cedric Villani <i>Interacting particle systems and Landau damping</i> Chair: E. Ghys | Hall 4 |
| 15:00-18:00 | Invited Talks and Short Communications in Parallel Sessions | |
| 18:00-20:00 | Short Communications in Parallel Sessions | |

Wednesday, August 25, 2010

Day 7

| | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 09:00-10:00 | Plenary Lecture 10 Stanley Osher <i>New algorithms in image science</i> Chair: M. F. Wheeler | Hall 4 |
| 10:15-11:15 | Plenary Lecture 11 Nicolai Reshetikhin <i>Mathematics of quantum field theory</i> Chair: H. Araki | Hall 4 |
| 11:30-12:30 | Plenary Lecture 12 Claire Voisin <i>On the cohomology of algebraic varieties</i> Chair: V. B. Mehta | Hall 4 |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Special Lecture by Fields Medallist Elon Lindenstaruss <i>Equidistribution in homogeneous spaces and number theory</i> Chair H. Furstenberg | Hall 4 |
| 15:00-19:00 | Invited Talks, Panel Discussion and Short Communications in Parallel Sessions | |
| 19:00 | Concert | Hall 4 |

Thursday, August 26, 2010

Day 8

| | | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 09:00-10:00 | Plenary Lecture 13 Thomas J. R. Hughes <i>Isogeometric analysis</i> Chair: R. Jeltsch | Hall 4 |
| 10:15-11:15 | Plenary Lecture 14 Peter Jones <i>Eigenfunctions and coordinate systems on manifolds</i> Chair: I. Daubechies | Hall 4 |
| 11:30-12:30 | Plenary Lecture 15 Kim Plofker <i>Indian rules, Yavana rules: foreign identity and the transmission of mathematics</i> Chair: Bill Casselman | Hall 4 |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Plenary lecture 16 Hugh Woodin <i>Strong axioms of infinity and the search for V</i> Chair: J. Nešetřil | Hall 4 |
| 15:00-18:00 | Invited Talks and Short Communications in Parallel Sessions | |
| 18:00-20:00 | Round Table: Use of metrics in evaluating research | Hall 4 |

Friday, August 27, 2010

Day 9

| | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 09:00-10:00 | Plenary Lecture 17 Hillel Furstenberg <i>Ergodic structures and non-conventional ergodic theorems</i> Chair: M. S. Raghunathan | Hall 4 |
| 10:15-11:15 | Plenary Lecture 18 R. Balasubramanian <i>Highly composite</i> Chair: J-M. Deshouillers | Hall 4 |
| 11:30-12:30 | Plenary Lecture 19 Richard Schoen <i>Riemannian manifolds of positive curvature</i> Chair: M. de Leon | Hall 4 |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Emmy Noether Lecture Idun Reiten <i>Cluster categories</i> Chair: C. Voisin | Hall 4 |
| 15:00-18:00 | Invited Talks and Short Communications in Parallel Sessions | |
| 18:00 | Closing Ceremony | Hall 4 |