

# International Congress of Mathematicians

ICM 2010

Hyderabad, India

## Programme

Thursday, August 19, 2010

Day 1

09:30-12:30	<b>Opening Ceremony</b> Award of Fields Medals, and the Nevanlinna, Gauss and Chern Prizes	Halls 3 & 4
12:30-14:00	Lunch	
14:00-16:30	<b>Laudations</b> <i>Chair: J. Palis Junior</i>	Hall 4
14:00-14:25	Work of Fields Medallist 1	
14:30-14:55	Work of Fields Medallist 2	
15:00-15:25	Work of Fields Medallist 3	
15:30-15:55	Work of Fields Medallist 4	
16:00-16:25	Work of Nevanlinna Prize Winner	
16:45-17:45	<b>Abel Lecture</b> <b>S. R. S. Varadhan</b> <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	
09:35-09:55	<b>Ms. May Chu</b> <i>Prof. Chern - Reminiscences</i>	
09:55-10:25	<b>J. Simons</b> <i>Prof. Chern - Reminiscences</i>	
10:25-10:45	Coffee Break	
10:45-11:30	Lecture on the work of the Chern Prize winner	
11:45-12:30	Lecture on the work of the Gauss Prize winner	
12:30-13:45	Lunch	
13:45-14:45	Special Lecture by Fields Medallist 1	Hall 4
15:00-18:00	Invited Talks, Panel Discussion and Short Communications in Parallel Sessions	
18:00-20:00	Cultural Programme	Hall 3
20:30	Conference Dinner	

Saturday, August 21, 2010

Day 3

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

**Sunday, August 22, 2010**

**Day 4**

09:00-10:00	Plenary Lecture 4 <b>David Aldous</b> <i>Exchangeability and continuum limits of discrete random structures</i> Chair: <b>Z-M. Ma</b>	Hall 4
10:15-11:15	Plenary Lecture 5 <b>R. Parimala</b> <i>Arithmetic of linear algebraic groups over two-dimensional fields</i> Chair: <b>S. Ramanan</b>	Hall 4
11:30-12:30	Plenary Lecture 6 <b>Ngo Bao Chau</b> <i>Endoscopy of automorphic forms</i> Chair: <b>J. Arthur</b>	Hall 4
12:30-13:45	Lunch	
13:45-14:45	Special Lecture by Fields Medallist 2	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 <b>A. N. Parshin</b> <i>Representations of higher adelic groups and arithmetics</i> <i>Chair: M. S. Narasimhan</i>	Hall 4
10:15-11:15	Plenary Lecture 8 <b>Jean-Michel Coron</b> <i>On the controllability of nonlinear partial differential equations</i> <i>Chair: L. Nirenberg</i>	Hall 4
11:30-12:30	Plenary Lecture 9 <b>Shige Peng</b> <i>Backward stochastic differential equations, nonlinear expectations and their applications</i> <i>Chair: S. R. S. Varadhan</i>	Hall 4
12:30-13:45	Lunch	
13:45-14:45	Special Lecture by Fields Medallist 3	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 <b>Stanley Osher</b> <i>New algorithms in image science</i> <i>Chair: M. F. Wheeler</i>	Hall 4
10:15-11:15	Plenary Lecture 11 <b>Nicolai Reshetikhin</b> <i>Mathematics of quantum field theory</i> <i>Chair: H. Araki</i>	Hall 4
11:30-12:30	Plenary Lecture 12 <b>Claire Voisin</b> <i>On the cohomology of algebraic varieties</i> <i>Chair: C. S. Seshadri</i>	Hall 4
12:30-13:45	Lunch	
13:45-14:45	Special Lecture by Fields Medallist 4	Hall 4
15:00-19:00	Invited Talks, Panel Discussion and Short Communications in Parallel Sessions	
19:00	<b>Concert</b>	Hall 4

Thursday, August 26, 2010

Day 8

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

Friday, August 27, 2010

Day 9

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