

Conference on Number Theory: Arithmetic, Diophantine and Transcendence

22nd - 25th December, 2017

Lecture Schedule

22nd December, 2017

09:00am - 09:30am *Registration and Inauguration* by Prof. P. K. Raina, Dean, Academics, IIT Ropar, Ropar

Chair: K. Sinha

09:35am - 10:15am by R. Murty

Title: Transcendental sums related to the zeros of zeta functions.

10:20am - 11:00am by C. S. Rajan

Title: TBA

11:00am - 11:20am Tea/Coffee Break

11:20am - 12:00am by S. David

Title: TBA

12:05am - 12:35pm by B. Saha

Title: Multiple Hurwitz zeta functions and their special values.

12:40pm - 01:00pm by Anup Dixit

Title: Value distribution of L-functions.

Chair: E. Saha

02:30pm - 03:10pm by K. Murty

Title: TBA

03:15pm - 03:55pm by K. Matsumoto

Title: On the value-distribution of automorphic L -functions.

03:55pm - 04:15pm Tea/Coffee Break

04:15pm - 04:45pm by S. Das

Title: Petersson norms of not necessarily cuspidal Jacobi modular forms and applications.

04:50pm - 05:10pm by B. Paul

Title: Estimating Hecke eigenvalues of Siegel modular form in the Maass space.

05:15pm - 05:35pm by M. Kumari

Title: TBA

23rd December, 2017

Chair: A. Vawani

09:00am - 09:40am by E. Ghate

Title: TBA

09:45am - 10:25am by S. D. Adhikari

Title: On a conjecture of Fox-Kleitman and some related questions.

10:30am - 11:00am by N. Kumar

Title: TBA

11:00am - 11:20am Tea/Coffee Break

11:20am - 11:50am by D. Suryaramana

Title: TBA

11:55pm - 12:25pm by S. Baier

Title: Moments of the error term in the Sato-Tate law for elliptic curves.

12:30pm - 01:00pm by S. Laishram

Title: Variants of Erdős-Selfridge superelliptic curves and their rational points.

Chair: Anup Dixit

02:30pm - 03:10pm by S. Eliahou

Title: Open problems and recent results on numerical semigroups.

03:15pm - 03:45pm by Atul Dixit

Title: On a new generalization of Ramanujans formula for $\zeta(2m + 1)$ and its implications.

03:45pm - 04:05pm Tea/Coffee Break

04:05pm - 04:35pm by G. Prakash

Title: Primes in sumsets and sumsets of primes.

04:40pm - 05:10pm by A. Vawani

Title: Zeros of partial sums of L -functions.

05:15pm - 05:35pm by S. Pathak

Title: Special values of derivatives of L -series and generalized Stieltjes constants.

24th December, 2017

Chair: S. Pathak

- 09:00am - 09:40am by F. Pazuki
Title: Elliptic curves and isogenies.
- 09:45am - 10:25am by B. Ramakrishnan
Title: Shimura lifts of certain class of modular forms of half-integral weight.
- 10:30am - 11:00am by S. Jha
Title: A duality for Selmer groups
- 11:00am - 11:20am Tea/Coffee Break
- 11:20am - 12:00am by T. N. Shorey
Title: Implications of abc conjecture.
- 12:05pm - 12:35pm by K. Sinha
Title: Pair correlation statistics for Hecke eigenvalues.
- 12:40pm - 01:00pm by N. Meher
Title: On a theorem of Mahler.

Chair: M. Kumari

- 02:30pm - 03:10pm by D. Thakur
Title: Multizeta values and motives in function field setting.
- 03:15pm - 03:55pm by M. Manickam
Title: On the eigenvalues of the W operators and newforms of half-integral weight.
- 03:55pm - 04:15pm Tea/Coffee Break
- 04:15pm - 04:45pm by K. Deo
Title: Zeros of the Dirichlet series attached to half-integral weight cusp forms.
- 04:50pm - 05:20pm by Arvind Kumar
Title: Estimates for Fourier coefficients of Hermitian cusp forms of degree two.
- 05:25pm - 05:45pm by P. Darbar
Title: TBA

25th December, 2017

Chair: Jyothsna S.

09:00am - 09:40am by J. Oesterlé

Title: Multiple zeta values and Apéry-like sums.

09:45am - 10:25am by A. Sankaranarayanan

Title: On estimates of Mertens function.

10:30am - 11:00am by J. Meher

Title: TBA

11:00am - 11:20am Tea/Coffee Break

11:20am - 11:50am by B. Sahu

Title: Rankin-Cohen brackets on Hilbert modular forms and special values of certain Dirichlet series.

11:55pm - 12:25pm by B. Sadaoui

Title: Multiple zeta values at the non positive integers.

12:30pm - 01:00pm by P. Dey

Title: TBA

Chair: T. Chatterjee

02:30pm - 03:00pm by S. Khanduja

Title: On discriminant and integral basis of pure number fields.

03:05pm - 03:35pm by B. Kumar

Title: On Doi-Naganuma and Shimura liftings.

03:35pm - 04:00pm Tea/Coffee Break

04:00pm - 04:20pm by A. Bharadwaj

Title: Linear independence of special values of certain L-series over number fields.

04:25pm - 04:45pm by S. S. Khurana

Title: Erdősian functions and associated L -functions.

04:50pm - 05:10pm by Sonika

Title: Linear independence of the Harmonic numbers over the field of algebraic numbers.

05:10pm - 05:30pm High Tea