II Jornadas de Álgebra y Aplicaciones
II Conference of Algebra and its Applications
Liberia Costa Rica, 2025

Conference Program

	Monday August 4th	Tuesday August 5th	Wednesday August 6th	Thursday August 7th	Friday August 9th
8:00 – 9:00	Welcome ceremony				
9:00 – 940	Talk 1	Talk 5	Talk 9	Talk 13	Round Tables
9:40 – 10:20	Talk 2	Talk 6	Talk 10	Talk 14	Round Tables
10:20 – 10:40	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:40 – 11:20	Talk 3	Talk 7	Talk 11	Talk 15	Round Tables
11:20 – 12:00	Talk 4	Posters	Talk 12	Talk 16	Round Tables
12:00 – 13:30	Lunch	Lunch	Lunch	Lunch	Day Trip
13:30 – 15:00	Minicourse 1	Minicourse 3	Cultural Activity	Minicourse 1	Day Trip
15:00 – 1530	Coffee Break	Coffee Break	Cultural Activity	Coffee Break	Day Trip
15:30 – 17:00	Minicourse 2	Minicourse 2	Cultural Activity	Minicourse 3	Day Trip
19:00:00				Conference Dinner	

Key Dates:

- Thursday 31st July - Saturaday 2nd August : Arrival in San José. Working meetings with professors for future collaborations and planification of future events.
- Sunday 3rd : Roadtrip to Liberia from San José. Meeting point: Kenneddy Park, San Pedro, 10:00 am.
- Wednesday 6th : Cultural activity (To be anounced).
- Thursday 7th : Conference dinner (Venue to be confirmed).
- Friday 8th : Round Tables / Discussions / Daytrip (To be announced).
- Saturday 9th : Return to San José.

Tlaks (40 minutes):

1. **Representations of Map Lie algebras and orthogonal polynomials.**
   Vyacheslav Futorny, Southern University of Science and Technology, China.

2. **Entangled Polynomials and quasi-cyclic codes.**
   Sergio Lopez-Permouth, Ohio University, USA.

3. **Finite-Rank $U(h)$-Free $sl(2)$-Modules**
   Dimitar Grantcharov, University of Texas Arlington, USA.

4. **Associated varieties of vertex algebras at nonadmissible levels.**
   Libor Krizka, Charles University, Prague. Czheck Republic.

5. **Admisible varieties of algebras.**
   Ivan Shestakov, Universidad de São Paulo, Brasil :

6. **Extreme grouth in Lie algebras.**
   Viktor Pretrogradski, Universidade de Brasilia, Brazil :

7. **Cyclotomic extensions of real quadratic fields.**
   Josué Ávila, Universidad de Costa Rica, Costa Rica.

8. **Posters session.**

9. **The symplectic singularities and vertex algebras.**
   Tomoyuki Arakawa, Kyoto University, RIMS, Japan.

10. **An invitation to vertex oparator algebras.**
    David Ridout, University of Melbourne, Australia :

11. **Equivalence of definitions of W-algebras and Poisson geometry.**
    Naoki Genra, Tomaya University, Japan :

12. **---**

13. **The disoriented skein and iquantum Brauer categories.**
    Alistair Savage, University of Ottawa, Canada :

14. **Linear representations of finite geometries and associated LDPC codes.**
    Qing Xiang, Southern University of Science and Technology, China.

15. **Braided commutative algebras.**
    Martín Mombelli, Universidad Nacional de Córdoba, Argentina.

16. **A Universal Kaluzhnin-Krasner Embedding theorem.**
    Xabier García Martínez, Universidad de Vigo, España.

Minicourses (2 sessioons - 90 minutes):

1. **Representations of symmetric groups.**
   Iryna Kashuba, Southern University of Science and Technology, China.

2. **Geometric representation theory.**
   Santiago Chaves, Universidad de Costa Rica.

3. **Generalized Weyl algebras and their representations.**
   Samuel Lopes, Universidade do Porto, Portugal.