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Sevilla
July 8 − 12

Conference programme

Monday, July 8

8:00 - 8:45	REGISTRATION
8:45 - 9:00	OPENING
9:00 - 9:55	[Session chair: Raúl Falcón] **Ian Wanless** **INVITED TALK**: *Subsquares of Latin squares*
9:55 - 10:20	Michael Kinyon *Loops with squares in two nuclei*
10:20 - 10:50	COFFEE
10:50 - 11:15	[Session chair: Ian Wanless] Akihiro Yamamura *Graphs of Latin Regular Hexahedra*
11:15 - 11:40	Daniel Kotlar *On Latin Young Diagrams*
11:40 - 12:05	Lorenzo Mella *On the Hadamard multiary quasigroup product*
12:05 - 12:30	Manuel González-Regadera *Critical sets based on non-trivial autoparatopisms of Latin squares*
12:30 - 12:55	Nour Alnajjarine *Linear Systems of Conics over Finite Fields*
13:00 - 14:30	LUNCH
14:30 - 15:25	[Session chair: Félix Gudiel] **Jaime Gutiérrez Gutiérrez** **INVITED TALK**: *Local permutation polynomials and Latin hypercubes*

16:15 - 16:45	COFFEE
16:45 - 18:00	Guided walk to Royal Alcázar
18:00 - 20:00	INDIVIDUAL VISIT TO ROYAL ALCÁZAR
20:00 - ...	Exploring Santa Cruz neighbourhood (Tapas)

Book of abstracts

Tuesday, July 9

9:00 - 9:55	[Session chair: Marco Buratti] **Anita Pasotti** **INVITED TALK**: *Graphs with prescribed edge-lengths: open problems and new results*
9:55 - 10:20	Onur Agirseven *Grid-Based Graphs, Linear Realizations, and the Buratti-Horak-Rosa Conjecture*
10:20 - 10:50	COFFEE
10:50 - 11:15	[Session chair: Daniel Kotlar] Toru Hasunuma *Exponentiation of Graphs*
11:15 - 11:40	Manuel Ceballos *New advances on graph families associated with graphicable algebras*
11:40 - 12:05	Angela Aguglia *On regular sets of affine type in finite Desarguesian planes and related codes*
12:05 - 12:30	Sibel Özkan *Complete Solutions to the Uniform Hamilton-Waterloo Problem*
12:30 - 12:55	Fatih Yetgin *On Some Cases the Directed Uniform Hamilton-Waterloo Problem*
13:00 - 14:30	LUNCH
14:30 - 15:25	[Session chair: Dean Crnković] **Andrea Švob** **INVITED TALK**: *Some constructions of strongly regular graphs and digraphs*
15:25 - 15:50	Vladislav Kabanov *Strongly regular graphs decomposable into divisible design graph and Delsarte clique*
15:50 - 16:15	Valentino Smaldore *Hemisystems and Strongly Regular Graphs*
16:15 - 16:45	COFFEE
19:00 - 20:30	*"SEVILLA EXPO 1929"* TOUR

Wednesday, July 10

9:00 - 9:55	[Session chair: Andrés Armario] **Patrick Solé** **INVITED TALK**: *Hadamard matrices and spherical designs*
9:55 - 10:20	Dean Crnković *Constructing doubly even self-dual codes from Hadamard matrices*
10:20 - 10:50	COFFEE
10:50 - 11:15	[Session chair: Jim Davis] Qing Xiang *Storage Codes on Triangle-Free Graphs*
11:15 - 11:40	Miguel Ángel Navarro Pérez *Linearly equivalent flag codes*
11:40 - 12:05	Alexander Gavrilyuk *A linear programming bound for sum-rank-metric codes*
12:05 - 12:30	Vedrana Mikulić Crnković *Regular digraphs and related linear codes*
12:30 - 12:55	Ivona Traunkar *LCD codes related to some combinatorial structures*
13:00 - 14:30	LUNCH
14:30 - 14:55	[Session chair: Patrick Solé] Miguel Sales Cabrera *Direct product group codes and derived quantum codes*
14:55 - 15:20	Domingo Gómez-Pérez *On the combinatorial properties of shrinking sequences*
15:25 - 15:50	Stefan Trandafir *Contextual configurations*
15:50 - 16:15	Cristian Camilo Meneses *Resolvable $\lambda-$Golomb rules and resolvable cyclic configurations*
16:15 - 16:45	COFFEE
18:00 - 20:00	[Session chair: Raúl Falcón] **José Miguel Díaz-Báñez** **INVITED POPULAR TALK**: *Mathematics and Flamenco:* *An unexpected partnership*

Thursday, July 11

9:00 - 9:55	[Session chair: Anita Pasotti] **Marco Buratti** **INVITED TALK**: *Additive combinatorial designs*
9:55 - 10:20	Francesca Merola *Additive Graph Decompositions*
10:20 - 10:50	COFFEE
10:50 - 11:15	[Session chair: Qing Xiang] Vedran Krčadinac *On mosaics of designs*
11:15 - 11:40	Jim Davis *New Spence Difference Sets*
11:40 - 12:05	Anamari Nakic *Hadamard Partitioned Difference Families*
12:05 - 12:30	Laura Marie Johnson *New cyclic PBIBD(2)s obtained using finite field cyclotomic*
12:35 - 12:55	Lucija Relić *On designs of degree 3*
13:00 - 14:30	LUNCH
14:30 - 14:55	[Session chair: Santiago Barrera] Sophie Toulouse *Alphabet reduction pairs of tables*
14:55 - 15:20	Giovanni Falcone *On the additive embedding of $\mathrm{PG}(2,q)$ into $\mathrm{AG}(3,q)$*
15:25 - 15:50	Valentina Pepe *On the maximum field of linearity of linear sets*
15:50 - 16:15	Stephen Humphries *Schur rings over $\mathrm{Sp}(\mathbf{n},\mathbf{2})$ and multiplicity one subgroups*
16:15 - 16:45	COFFEE
16:45 - 17:10	[Session chair: Andrés Armario] Pastora Revuelta *Determining exact values of 4-color-off-diagonal generalized Schur numbers*
17:10 - 17:35	Soukaïna Mahzoum *Skew-adjacency matrices of tournaments with bounded principal minors*

20:00 - 22:00	CONFERENCE DINNER (*Restaurant "El Cabildo"*)
22:00 - 23:30	*NIGHT CITY* TOUR
23:30	METROPOL PARASOL VISIT (*"The mushrooms"*)

CODESCO'24. Sevilla, 8 - 12 July, 2024.

Friday, July 12

9:35 - 10:20	[Session chair: Víctor Álvarez] **Ilias Kotsireas** **INVITED TALK**: *130+ years of the Hadamard conjecture*
10:20 - 10:50	COFFEE
10:50 - 11:15	[Session chair: Víctor Álvarez] Robert Craigen *Dimension of affine classes*
11:15 - 11:40	Santiago Barrera Acevedo *Cocyclic Two-Circulant Core Hadamard Matrices*
11:40 - 12:05	Ronan Egan *Hadamard matrices in centraliser algebras of monomial representations*
12:05 - 12:30	Inés Mora *Some results on Graphic Topology defined on Tournaments*
12:30 - 12:55	Juan Núñez-Valdés *Algebraically-informed deep networks for evolution algebras*
12:55 - 13:00	CLOSING
13:00 - 14:30	LUNCH

Some suggestions:

- To go to breakfast near the conference venue, you have a lot of cafes along Reina Mercedes Avenue.

- To go to dinner, we highly recommend going for tapas either in the city center or in the Triana neighborhood, crossing the Guadalquivir River on the famous Triana Bridge. In any case, we also show here some recommendations near the conference venue:

  - **Bodega Asador La Pitarra Heliopolis**: Highly recommended.
  - Bar Avelino.
  - Bar Metrópolis 1985.