1. Christian Clason, University Duisburg-Essen, Germany.
   Plenary lecture: Nonsmooth optimization of partial differential equations

2. Jeffrey S. Geronimo, Georgia Institute of Technology, USA.
   Plenary lecture: Bivariate Bernstein-Szegö weights on the square

3. Vladimir Shikhan, Catholic University of Louvain (UCL), Belgium.
   Plenary lecture: Algorithmic principle of least revenue for finding market equilibria

4. Vilmos Totik, University of South Florida, USA & University of Szeged, Hungary.
   Plenary lecture: The asymptotic form of the Gauss-Lucas theorem

5. Rehouma Abdelhamid, Department of Mathematics, University of Hama Lakhdar of Eloued, Algeria.
   Talk: Polar Bergman Orthogonal Polynomials

   Talk: Optimizing derivatives through stochastic programming

7. Alexandre Aptekarev, Keldysh Institute of Mathematics, Russia.
   Talk: Discrete integrable systems generated by Angelesco systems of Hermite-Padé approximants

8. Didier Aussel, University of Perpignan, France.
   Talk: Projected solutions of Nash games with applications to electricity markets

   Talk: Best rational approximation to functions with finitely many singularities

10. Abraham Barragán, Benemérita Universidad Autónoma de Puebla, México.
    Talk: Solvability and new primal-dual partition of the space of linear semi-infinite continuous optimization problems

11. Dolores Barrios Rolanía, Universidad Politécnica de Madrid, Spain.
    Talk: The Darboux transformations and the Kostant-Toda system

12. Bernhard Beckermann, University of Lille, France.
    Talk: Bergman orthogonal polynomials and the Grunsky matrix

13. Sofía Behar Jequín, Universidad de La Habana, Cuba.
    Talk: A fair Hermite quadratic A-spline scheme
   Talk: *On proximal (sub)gradient splitting method for nonsmooth convex optimization problems*

15. **Carlos Beltrán**, Universidad de Cantabria, Spain.
   Talk: *Random processes and minimal energies in high dimensional spheres*

   Talk: *Algoritmos heurísticos para la solución del problema lineal con restricciones de equilibrio*

17. **Carlos N. Bouza Herrera**, Universidad de La Habana, Cuba.
   Talk: *Optimizing derivatives through stochastic programming*

18. **Gemayqzel Bouza Allende**, Universidad de La Habana, Cuba.
   Talk: *Scalar functions for computing minimizers under variable order structures*

19. **Luis Alberto Bouza Alvarez**, Universidad de La Habana, Cuba.
   Talk: *Un algoritmo memético aplicado al problema de planificación de recorridos turísticos*

20. **Winston Buckley**, Bentley University, Massachusetts, USA.
    Talk: *Numerical approximations of optimal portfolios in mispriced asymmetric Levy markets*

    Talk: *Interpolación de la superficie craneal para el diseño automático de prótesis*

22. **Junot Cacoq**, ESIH, Puerto-Príncipe, Haiti.
    Talk: *Convergence of row sequences of simultaneous Fourier-Padé approximation*

23. **Joanna Campbell Amos**, Universidad de La Habana, Cuba.
    Talk: *Problema del cartero chino sobre redes mixtas*

24. **Glaydston de Carvalho Bento**, Instituto de Matemática e Estatística/UFG, Portugal.
    Talk: *A new approach to the proximal point method: convergence on general riemannian manifolds*

25. **Danae Carreras García**, Universidad de La Habana, Cuba.
    Talk: *A smoothing approach for mathematical programs with complementarity constraints*

26. **Mirta Castro Smirnova**, University of Seville, Spain.
    Talk: *Time and band limiting for matrix orthogonal polynomials*

27. **Theodore S. Chihara**, Purdue University, NW, USA.
    Talk: *An extension of the orthogonal polynomials of Gottlieb*

28. **Fritz Colonius**, Institute of Mathematics, University of Augsburg, Augsburg, Germany.
    Talk: *Lyapunov exponents for random switched systems and stabilizability of control systems*

29. **Erick Manuel Delgado Moya**, Universidad de La Habana, Cuba.
    Talk: *Orthogonal polynomials in the solution of the problem of optimal control*

30. **Manuel Domínguez de la Iglesia**, Instituto de Matemáticas, UNAM, México.
    Talk: *Two stochastic models related with an example coming from group representation theory*
   Talk: Subdivision based snakes for contour detection

32. Peter Dragnev, Indiana-Purdue University - Ft. Wayne, Indiana, USA.  
   Talk: Universal lower bounds on energy of spherical codes

33. Alexander Dyachenko, Institut fur Mathematik, Germany.  
   Talk: Hurwitz and Hurwitz-type matrices of two-way infinite series

34. Jorge Estrada Salarbous, Instituto de Cibernética, Matemática y Física. Cuba  
   Talk: Subdivision based snakes for contour detection

35. Lidia Fernández, Universidad de Granada, Granada, Spain.  
   Talk: Krall orthogonal polynomials on the simplex

36. Abel Fernández Infante, Instituto Superior Politécnico, La Habana, Cuba.  
   Talk: Consequences of Abel's theorem extended to the rows of the Padé table

37. Alina Fernández Arias, Universidad de La Habana, Cuba.  
   Talk: Método de búsqueda local y perturbación para el problema de enrutamiento de vehículos con recogida y entrega simultánea

38. Orizon P. Ferreira, Universidade Federal de Goiás, Brazil.  
   Talk: Unifying the local convergence analysis of Newton’s Method for strongly regular generalized equations

39. Dafne García de Armas, Universidad de La Habana, Cuba.  
   Talk: Estrategia de selección de recorridos para el problema de enrutamiento de vehículos con flota heterogénea y múltiples compartimentos

40. Aracelys García Armenteros, Universidad de La Habana, Cuba.  
   Talk: Análisis experimental con metaheurísticas

41. Dayron García Pérez, Universidad de La Habana, Cuba.  
   Talk: A fair Hermite quadratic A-spline scheme

42. Doug Hardin, University of Vanderbilt, USA.  
   Talk: Asymptotics of minimal discrete periodic energy problems

43. Lisa Hegerhorst, Leibniz University, Hannover, Germany.  
   Talk: Optimization in water distribution systems

44. Victoria Hernández Mederos, Instituto de Cibernética, Matemática y Física, Cuba  
   Talk: Subdivision based snakes for contour detection

45. Diederich Hinrichsen, University of Bremen. Germany.  
   Talk: Optimization problems in the stability analysis of uncertain time-varying systems

46. Azadeh Hosseinpour, Department of Mathematics, Faculty of Science, Naresuan University, Thailand.  
   Talk: Ekeland’s variational principle and its application to equilibrium problems
47. **Miguel Jiménez Pozo**, Universidad Autónoma de Puebla, México.  
   Talk: *A note on the existence of certain nowhere Lipschitz functions*

48. **Alexander Komlov**, Steklov Institute RAS, Moscow, Russia.  
   Talk: *Analytic continuation of meromorphic functions defined on a three-sheeted Riemann surface via type I Hermite-Padé polynomials*

49. **Rostyslav Kozhan**, Uppsala University, Sweden.  
   Talk: *Multiplicative non-Hermitian perturbations of Hermitian matrices and classical random matrix ensembles*

50. **Natascha Krienen**, Leibniz University, Hannover, Germany

51. **Volha Kushel**, Shanghai Jiao Tong University, China.  
   Talk: *Ordered D-stability and its application to mathematical economics*

52. **George Labahn**, David R. Cheriton School of Computer Science, University of Waterloo, Canada.

53. **Lance Littlejohn**, Baylor University, Waco, Texas, USA.  
   Talk: *Glazman-Krein-Naimark theory, left-definite theory and the square of the Legendre polynomials differential operator*

54. **Guillermo López Lagomasino**, Universidad Carlos III de Madrid, Spain.  
   Talk: *On Nikishin systems with discrete components and weak asymptotics of their orthogonal polynomials*

55. **Francisco Marcellán Español**, Universidad Carlos III de Madrid, Spain.  
   Talk: *Linear spectral transformations of matrix of measures*

56. **Aymée Marrero Severo**, Universidad de La Habana, Cuba.  
   Talk: *Orthogonal polynomials in the solution of the problem of optimal control*

57. **Andrei Martínez Finkelshtein**, Universidad de Almería, Spain.  
   Talk: *Do orthogonal polynomials dream of symmetric curves?*

58. **Ana Matos**, University of Lille, Lille, France.  
   Talk: *On rational functions without Froissart doublets*

59. **Wilfredo Morales Lezca**, Universidad de La Habana, Cuba.  
   Talk: *A fair Hermite quadratic A-spline scheme*

60. **Ramón Orive**, Universidad de La Laguna, Spain.  
   Talk: *On external fields created by fixed charges*

61. **Juan Manuel Otero Pereira**, Universidad de La Habana, Cuba.

   Talk: *Muckenhoupt inequalities with three measures and applications to Sobolev orthogonal polynomials*

63. **Héctor Pijeira Cabrera**, Universidad Carlos III de Madrid, Spain.  
   Talk: *On Sobolev-Type Extremal Polynomials*
64. Allan Pinkus, Technion, Haifa, Israel.
   Talk: Approximation algorithms for ridge functions

65. Luis Ramiro Piñeiro, University of Havana, Cuba
   Talk: Consequences of Abel's theorem extended to the rows of the Padé table

66. Ana Portilla Ferreira, St. Louis University (Madrid Campus). Spain.
   Talk: Asymptotics of extremal polynomials with respect to Sobolev norms

   Talk: 1. A reproducing kernel Hilbert discretization method for linear PDEs with nonlinear right-hand side. 2. Hybrid nonautonomous SIR-model coming from a simple and reasonable government action police

68. José M. Rodríguez, Universidad Carlos III de Madrid, Spain.
   Talk: Markov-type inequalities and duality in weighted Sobolev spaces

69. Glenda Rodríguez García, Universidad de La Habana, Cuba.
   Talk: Redes complejas con aplicación a la epidemia de dengue

70. Mariano Rodríguez Ricard, Universidad de La Habana, Cuba.
   Talk: Patrones fuertes de Turing-Hopf en el sistema de Lengyel-Epstein

71. David Romero, Universidad Nacional Autónoma de México, México.
   Talk: An approach to political districting in Mexico

72. Daniel Rose, Leibniz University, Hannover, Germany.
   Talk: Warm started active set solver for tree-structured QP’s

73. Edward B. Saff, University of Vanderbilt, USA.
   Talk: Optimal discrete measures for Riesz potentials

74. Julián Sarria González, Universidad de las Ciencias Informáticas, Cuba.
   Talk: Patrones fuertes de Turing-Hopf en el sistema de Lengyel-Epstein

75. Ruediger Schultz, University of Duisburg-Essen, Faculty of Mathematics. Germany.
   Talk: Some Remarks on checking feasibility of nominations in gas pipeline systems

76. Anier Soria Lorente, Universidad de Granma. Cuba.
   Talk: 1. On series representations for Apéry’s constant. 2. Analytic properties of Al-Salam-Carlitz I-Sobolev type orthogonal polynomials

77. Maya Miteva Stoyanova, University of Sofia, Bulgaria.
   Talk: Energy bounds for antipodal spherical codes

78. Maria das Neves Rebocho, University of Coimbra, Portugal.
   Talk: Discrete Painlevé equations for recurrence coefficients of Laguerre-Hahn orthogonal polynomials of class one

79. Nikos Stylianopoulos, University of Cyprus, Cyprus.
   Talk: Relative asymptotics of orthogonal polynomials
80. **Moisés Soto Bajo**, Universidad Nacional Autónoma de México, México.  
   Talk: *Anisotropic approximation with shift-invariant subspaces*

81. **Marc Steinbach**, Leibniz University, Hannover, Germany.  
   Talk: *Optimization in water distribution systems*

82. **Dania Tamayo Vera**, Universidad de La Habana, Cuba.  
   Talk: *Algoritmos heurísticos para la solución del problema lineal con restricciones de equilibrio*

83. **Jan Thiedau**, Leibniz University, Hannover, Germany.  
   Talk: *Nonlinear optimization in gas networks for storage of electric energy*

84. **Mikhail Tyaglov**, Shanghai Jiao Tong University, China.  
   Talk: *Zeroes of finite differences of polynomials and entire functions*

85. **Damián Valdés Santiago**, Universidad de La Habana, Cuba.  
   Talk: *Estudio de singularidades en transitorios de presión*

86. **Walter Van Assche**, KU Leuven, Belgium.  
   Talk: *Asymptotic distribution of the zeros of Jacobi-Piñeiro and multiple Laguerre polynomials*

87. **Oscar L. Vera**, Universidad de La Habana, Cuba.  
   Talk: *Interpolación de la superficie craneal para el diseño automático de prótesis*

88. **Thomas Wetere Tulu**, Chinese Academy of Sciences, China.

89. **Franck Wielonsky**, Aix-Marseille University, France.  
   Talk: *Modified logarithmic potential theory and applications*

90. **Alejandro Zarzo**, Universidad Politécnica de Madrid, Madrid, Spain.  
   Talk: *A MINLP model to optimize energy consumption in railway rapid transit networks*

91. **Ahmed Zayed**, De Paul University, Chicago, USA.  
   Talk: *Convolution and product theorems for the special affine Fourier transform*