

1st Workshop Algebra, Geometry and Applications : Brazil-Africa

Cheikh Anta Diop University of Dakar Sénégal, Departement of Mathematics and Computer Science

Programme Workshop Algebras, Geometry and Applications : Brazil-Africa : Monday, 29-01-2018 (V1)

	Titles	Speaker	Session chair
9h-9h30	Registration and Opening remarks	Bakary Manga, Djiby Sow and Mamadou Barry	Mamadou Barry, Sénégal
9h30-10h30	Algebras of invariant differential operators	Vyacheslav Futorny, Member of Sciences Accademy of Brazil	Diaraf SECK Sénégal
10h30-11h	Coffee break and Session posters		
11h-11h30	Summary of research topics of LGA Lab (Geometry and Applications)	Cheikh Mbacke Diop, Cheikh Anta Diop University, Senegal	Vyacheslav Futorny, Brazil
11h30-12h10	On positive principal eigenvalue problems	Guy Degla, Institut of Mathematics (IMPS) Benin	
12h10-15h	Break : lunch		
15h-15h40	On properties of principal elements of Frobenius Lie algebras	Bakary Manga, Cheikh Anta Diop University, Senegal	Mamadou Sanghare Sénégal
15h40-16h20	Modules whose nonzero endomorphisms have e-small kernels.	Papa Cheikhou Diop, Thies University Sénégal	
16h20-16h50	Coffee break and Session posters		
16h50-17h20	Heights Igusa Zeta Functions and Ananalytic continuation on Berkovich spaces	Ibrahima Hamidine, Assane Seck University of Ziguinchor, Sénégal	Todjihoundé Léonard, Benin (IMSP)
17h20-18h10	Permutation polynomials over finite fiels	Omar Kihel, Brock University, Canada	

Local chairs : Mamadou Barry 00221782215151, Bakary Manga 00221705664612, Djiby Sow 00221771847479

Programme Workshop Algebras, Geometry and Applications : Brazil-Africa : Tuesday, 30-01-2018 (V1)

	Title	Speaker	Session chair
9h-10h	Hydrodynamic Vortex on a Compact Surface: the Steady Vortex Metric and generalizations to higher dimensions	Clodoaldo Grotta Ragazzo, Director of the institute of Mathematics of Sao Polo, Brazil	Kangni Kinvi, Cote d'Ivoire
10h-10h40	Des feuilletages aux structures de contact	Hamidou Dath, Director of the PhD school, Cheikh Anta Diop University, Senegal	
10h40-11h10	Coffee break		
11h10-11h50	Autour des quotients de courbes de Fermat	Oumar Sall, University of Ziguinchor, Sénégal	Hamidou Dath, Sénégal
11h50-12h20	Résolution du $\partial\bar{\partial}$ pour les courants prolongeables d'efinis sur un domaine non borné Ω de \mathbb{C}^n	Mamadou Ermame Bodian, Assane Seck University of Ziguinchor, Sénégal	
12h20-15h	Break : lunch		
15h-15h40	On refined algorithm for computing Sygygies overs rings	Andre S. E. Mialebama, Marien Ngouabi University, Congo	Momo BANGOURA, Guinée-Konakry
15h40-16h10	Fields generated by sums and products singular moduli	Bernadette Faye, Cheikh Anta Diop University, Senegal	
16h10-16h40	Resolution du $\partial\bar{\partial}$ pour les formes differentielles ayant une valeur au bord au sens des courants dans un domaine étoilé strictement pseudoconvexe de \mathbb{C}^n	Souhaibou Sambou, Assane Seck University of Ziguinchor, Sénégal	
16h40-17h10	Coffee break		
17h10-17h40	Localization functor $S^{-1}(\)$ and functors EXT and TOR	Daouda Faye, Gaston Berger University, Sénégal	Masseye gaye, Sénégal
17h40-18h10	Functorization of graded modules and its fractions modules in graded duo-ring	Ahmed Ould Chbih, Gaston Berger University, Sénégal	
18h10-18h50	Some recent results of Harmonic analysis on reductive Lie groups	Kangni Kinvi, University Felix Houphouet Boigny University, Côte d'Ivoire	

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Programme Workshop Algebras, Geometry and Applications : Brazil-Africa : Wednesday , 31-01-2018 (V1)

	Title	Speaker	Session chair
9h-9h40	On biharmonic curves (Courbes biharmoniques)	Todjihoundé Léonard, Director of the mathematical Institut of Benin (IMSP)	Cristian Ortiz, Brazil
9h40-10h20	Resistent quantum cryptography by Lattices: NTRU-LPR-IND-CCA2 : A new ideal-lattices encryption scheme secure in the standard model	Djiby SOW, Cheikh Anta Diop University, Senegal	
10h20-10h40	Generalization of Encoding on Hyperelliptic curves of genus $g=1,2,\dots,5$ via Mersenne Numbers	Michel Seck, Cheikh Anta Diop University, Senegal	
10h40-11h10	Coffee break		
11h10-11h30			Thomas B. Bouetou, Cameroon
11h30-12h10	Null Geometry in Presence of Symmetries	Cyriaque Atindogbe Universit'e d'Abomey-Calavi, Benin	
12h10-12h30	Summary of research topics in LACGAA Lab (Algebra, Cryptography, Agebraic Geometry and Applications)	Amadou Tall, Cheikh Anta Diop University, Senegal	
12h30-13h	Official addresses	<p>Joseph Sarr, Dean of Faculty of sciences and technics</p> <p>Mamadou Barry, Head of the department of Mathematics and Computer Sciences</p> <p>Diaraf Seck, Responsible of the MOU between the university UCAD-Dakar and the Mathématique Institut of Sao-Polo Brazil</p> <p>Vyacheslav Futorny, Member of Sciences Accademy of Brazil</p> <p>Clodoaldo Grotta Ragazzo, Current director of the institute of Mathematics Brazil</p>	
13h-15h	Break : lunch		
15h-....	Free		

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Programme Workshop Algebras, Geometry and Applications : Brazil-Africa : Thursday, 01-02-2018 (V1)

	Title	Speaker	Session chair
9h-09h40	On representations of Bol Algebras	Thomas B. Bouetou, Ecole Nationale Supérieure Polytechnique de Yaounde, Cameroon	Clodoaldo Grotta Ragazzo, Brazil
09h40-10h20	Localisation dans les anneaux non nécessairement commutatifs	Maaouia Mohamed : Gaston Berger University, Sénégal	
10h20-10h40	Summary of research topics of Mathematics and Cybersecurity Research Group	Djiby Sow, Cheikh Anta Diop University, Senegal	
10h40-11h10	Coffee break		
11h10-11h30	One Dimensional Modular Polynomial	Abdoulaye Maiga, Cheikh Anta Diop University, Senegal	Topsoba Théodore Marie Yves, Sénégal
11h30-12h	Around minimal sets for the horocycle flow	Cheikh Lo, Cheikh Anta Diop University, Senegal	
12h-12h30	Strongly Hopfian and Strongly Cohopfian Objects in the Category of complexes of Left A - A modules	El Hadj Ousseynou Diallo, Cheikh Anta Diop University, Senegal	
12h30-15h	Break : lunch		
15h-15h40	Auto-intersection	Masseye Gaye, Cheikh Anta Diop University, Senegal	Oumar Sall, Sénégal
15h40-16h	Une introduction à la géométrie tropicale	Winnie Ossete, Assane Seck University of Ziguinchor, Sénégal	
16h-16h20	On Coatomic and supplemented modules	Mame Demba Cisse, Cheikh Anta Diop University, Senegal	
16h30-17h	Coffee break		
17h-17h20	The resultant Diophantine equation	Aboussaghid Alkabouss Sakha, Cheikh Anta Diop University, Senegal	Cheikh Mbacké Diop, Sénégal
17h20-18h20	On the geometry of quotient spaces	Cristian Ortiz, University of Sao polo Brazil	

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Programme Workshop Algebras, Geometry and Applications : Brazil-Africa : Friday, 02-02-2018 (V1)

	Title	Speaker	Session chair
9h-9h40	Autour des mots par insertion	Tapsoba Théodore Marie Yves, University Nazi Boni Burkina Faso	Salamon Sambou, Sénégal
9h40-10h20	An Introduction to Non-associative structures and applications	G'érard KIENTEGA, Université Ouaga II, Burkina Faso	
10h20-10h40	Post-quantum cryptography by Codes: DAGS: Key Encapsulation using Dyadic GS Codes :	Brice Odilon BOIDJE, Cheikh Anta Diop University, Senegal	
10h40-11h10	Coffee break		
11h10-11h50	Esquisse d'une Géométrie algébrique non commutative	Ahmet Seydi, Cheikh Anta Diop University, Senegal	Mamadou Barry, Sénégal
11h50-12h30	Immersion du \mathbb{H}^2 dans \mathbb{R}^3	Athoumane NIANG, Cheikh Anta Diop University, Senegal	
12h30-15h	Break : lunch		
15h-15h40	On Affine Szabó manifolds	Abdou Salam Diallo, University of Bambey, Sénégal	Cyriaque Atindogbe, Benin
15h40-16h20	Représentation du double d'une quasi-bigèbre de Lie dans son algèbre extérieure	Momo BANGOURA, Directeur Général de l'Enseignement Supérieure Guinée-Konakry	
16h20-16h40	Linear recurring sequences over semi-modules over zero-sum semirings	Lamine Ngom, Cheikh Anta Diop University, Senegal	
16h40-17h	Coffee break		
17h-17h20	On normal basis over field	Mohamadou Sall, Cheikh Anta Diop University, Senegal	Maaouia Mohamed, Sénégal
17h20-18h	Summary of research on d'' Problem	Salomon SAMBOU, Université Assane Seck, Ziguinchor, Sénégal	

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