



Program - A2C : Algebra Codes and Cryptology In honor of Prof. Mamadou Sangharé.
Dakar, Senegal, December 5-7, 2019

Thursday 5th December (Chairs : Prof. S.Touré / Prof. M. Ouattara)

08:00-09 :00	Registration
09:00-11:00	<p>Opening Ceremony.</p> <ol style="list-style-type: none"> 1- Welcome address. 2- Documentary video. 3- Allocutions. <ul style="list-style-type: none"> • Maths & info Department Head • Maths & info Doctoral School Director • Foreign delegations. (Burkina Faso, Cote d'Ivoire, Morocco) • UMA-President. • ANSTS-Perpetual Secretary • FST-Dean • UCAD-vice chancellor • Minister of Higher Education, Research and Innovation. • Presidency General Secretary, Minister of state
11:00-11:30	Coffee Break
11:30-12:30	<p>L'Moufadal Ben Yakoub <i>Hopficity of Modules and Rings (Survey)</i></p>
13:00-15:00	Lunch
15:00 - 16:00	Mamadou Sangharé
16:00-16:30	<p>Daouda Faye, Mohamed Ben Maaouia & Mamadou Sanghare <i>Functor $S-1()$ and Functorial Isomorphisms</i> Speaker: Daouda Faye</p>
16:30-17:00	Coffee Break
17:00-17:30	<p>Soda Diop, Guy Mobouale Wamba, Andre Saint Eudes Mialebama Bouesso & Djiby Sow <i>On the computation of minimal free resolutions with integer coefficients</i> Speaker: Soda Diop</p>
17:30-18:00	<p>Abdellatif Rochdi <i>Finite-dimensional real division algebras</i></p>

Université Cheikh Anta Diop de Dakar Faculté des Sciences et Techniques  Département de Mathématiques et Informatique	Laboratoire d'Algèbre, Cryptographie, Géométrie Algébrique et Applications  (LACGAA)
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Friday 6th December (Chairs : Prof. C.Carlet / Prof. D. Sangaré)	
09:00-10:00	Consuelo Martinez Lopez <i>Group Codes</i>
10:00-10:30	Thierry P. Berger, Cheikh Thiécoumba Gueye, Olivier Ruatta & Jean Belo Klamti <i>Designing a public key cryptosystem based on quasi-cyclic subspace subcodes of Reed-Solomon codes</i> Speaker: Thierry P. Berger
10:30-11:00	Coffee Break
11:00-11:30	Abdelmalek Azizi <i>On the splitting field of some polynomials with class number one</i>
11:30-12:30	Edoardo Persichetti <i>Code-based Cryptography for Post-Quantum Standardization</i>
13:00-15:00	Lunch
15:00-16:00	Sylvain Guilley (with Nicolas Bruneau, Charles Christen, Jean-Luc Danger & Adrien Facon) <i>Security evaluation against side-channel analysis at compilation time</i>
16:00 – 16:30	Michel Seck and Djiby Sow <i>BI-NTRU Encryption Scheme: Two new Secure Variants of NTRU</i> Speaker: Michel Seck
16:30-17:00	Coffee Break
17:00-17:30	Mame Abdou Diaw <i>NIST Test on Multiplexed Sequence</i>
17:30-18:00	Jingang Liu, Yongge Wang, Zongxiang Yi and Dingyi Pei <i>Quantum Resistant Public Key Encryption Scheme polarRLCE</i> Speaker: Jingang Liu
18:00-19:00	Free
19:00-21:00	Gala Diner

Saturday 7th December (Chair : S. Guilley)	
09:00-10:00	Claude Carlet <i>Boolean functions for homomorphic-friendly stream ciphers</i>
10:00-10:30	Michael Jacobson, Monireh Rezai Rad and Renate Scheidler <i>Jacobian versus Infrastructure in Split Hyperelliptic Curves</i> Speaker : Michael Jacobson
10:30-11:00	Coffee Break
11:00-11:30	Bôa Djavph Yoganguina, Khadidiatou Wane Ep Keïta, Idy Diop, Khaly Tall and Sidi Mouhamed Farssi <i>Proposition of a model for securing the Neighbor Discovery Protocol (NDP) in IPv6 environment</i> Speaker: Bôa Djavph Yoganguina
11:30-12:00	George Teseleanu <i>Subliminal Hash Channels</i>
12:30-14:30	Lunch
14:30-22:00	Excursion Bandia reserve/Somone Lagoon Dinner at Africa6 Plage in Somone (16 euros not supported by registration fees)