Program

	session - code	LASTNAME	FIRSTNAME	Titre
Chair : Arnaud Ducrot				
Monday June 16 2PM – 3PM	**PLEANRY-1**	Demongeot	Jacques	Forecasting epidemic peaks with index of dispersion of new cases.
Chair : Jacques Demongeot				
Monday PM 16/06	**A1-1**	He	Daihai	The 1978 English boarding school influenza outbreak: where the classic SEIR model fails
	A1-2	Seydi	Ousmane	On invasion threshold for structured population models
Chair : David Manceau				
Monday PM 16/06	**B1-1**	Kang	Hao	On the principal eigenvalue of an age-structured operator with diffusion and advection
	B1-2	Khalil	Kamal	Invariant sets under semiflows via a Lie--Trotter product formula for Semilinear evolution equations
Monday PM 16/06	**C1-1**			
	C1-2			
Chair : Alain Miranville				
Tuesday June 17 9 AM – 10 AM	**PLENARY-2**	Wu	Jianhong	Coupling behavioural adaptation and infestation/transmission Dynamics through risk-structured models.
Chair : Quentin Griette				
Tuesday AM 17/06	**A2-1**	Chatziafratis	Andreas	Higher-order diffusion and Cahn–Hilliard-type models revisited on the half-line
	A2-2			
Chair : Hao Kang				
Tuesday AM 17/06	**B2-1**	Thorel	Alexandre	Analytic semigroup generated by the dispersal process of a sylvatic Transmission model of Chagas disease
	B2-2	Lahbiri	Fatima Zahra	Stochastic Evolution Equations with Almost Sectorial Operators and White Noise: An Integrated Semigroup Approach

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Chair : Pierre Gabriel				
Tuesday AM 17/06	**C2-1**	Milisic	Vuk	Self-Interacting diffusions with aging
	C2-2	Moussaoui	Ali	On the date of the epidemic peak
Chair : Luca Gerardo				
Tuesday June 17 1:30 PM – 2:30 PM	**PLENARY-3**	Ducrot	Arnaud	Periodic wave train for the Gurtin-MacCamy Equation
Chair : Gaël Raoul				
Tuesday PM 17/06	**A3-1**	Gabriel	Pierre	Large scale asymptotics for subdiffusive motion
	A3-2	Zhang	Zhengyang	Application of an age-structured model to anchovy population in the Yellow Sea: Effects of fishing moratorium and selective fishing
	A3-3	Fostier	Louis	Long-time behavior of quasilinear size-structured population models with separable growth rate
Chair : David Manceau				
Tuesday PM 17/06	**B3-1**	Huang	Chengming	Highly accurate numerical methods for Volterra integral equations with weakly singular solutions
	B3-2	Vaginay	Athénaïs	Abstract simulation of ODEs
	B3-3	Dhaouadi	Nessim	Adaptation in shifting and size-changing environments under selection
Tuesday PM 17/06	**C3-1**			
	C3-2			
	C3-3			
Chair : Jianhong Wu				
Wednesday June 18 9 AM – 10 AM	**PLENARY-4**	Han	Maggie	A random age-structured population model.
Chair : Ousmane Seydi				
Wednesday AM 18/06	**A4-1**	Adimy	Mostafa	Multi-serotype nested immuno-epidemiological model for dengue hemorrhagic fever involving backward bifurcation and Serotype invasion
	A4-2	Córdova-Lepe	Fernando	From a new concept of infection force towards a contagion's Mechanical theory

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Chair : Valentina Lanza				
Wednesday AM 18/06	**B4-1**	Ibrahim	Mahmoud A.	Threshold Dynamics in Periodic Compartmental Models with Partial Immunity in Humans and Temperature-Dependent Incubation Period
	B4-2	Kakumani	Bhargav Kumar	Optimal harvesting control for a nonlinear McKendrick-von Foerster equation with generic cost functional
Chair : Kamal Khalil				
Wednesday AM 18/06	**C4-1**	Nali	Ibrahim	Exploring the Allee Effect in a Within-Host Bacterial Infection Model
	C4-2	Fakih	Laurance	Modeling the Impact of Misinformation Dynamics on Antimicrobial Resistance: A Multi-Strain Approach with Time Delays
Chair : Raluca Eftimie				
Thursday June 19 9 AM – 10 AM	**PLENARY-5**	Gerardo-Giorda	Luca	Patient-specific simulation in support of cardiovascular intervention.
Chair : Quentin Griette				
Thursday AM 19/06	**A5-1**	Cantin	Guillaume	Distribution of heterogeneous steady states and long time behavior for a reaction-diffusion forest growth model
	A5-2	El Hajj	Wissam	Regimes and mechanisms of inflammation described by reaction-diffusion systems
Chair : Alain Miranville				
Thursday AM 19/06	**B5-1**	SUN	QIWEN	Tumor cell dynamics in oncolytic virotherapy
	B5-2	Deng	Qi	Modeling the interaction of cytotoxic T-lymphocytes and oncolytic viruses in a tumor microenvironment
Chair : Ali Moussaoui				
Thursday AM 19/06	**C5-1**	Assan	Belthasara	A COVID-19 epidemic model with periodicity in transmission and environmental dynamics
	C5-2	Halder	Joydev	A fourth order numerical scheme for an age-structured population model with infinite life span
Chair : Mostafa Adimy				
Thursday PM 19/06	**A6-1**	HBID	Moulay Lhassan	Stability and bifurcation for state-dependent delay differential Equations arising from cellular dynamics
	A6-2	Lin	Genghong	Basins of attraction and paired Hopf bifurcations for delay differential equations with bistable nonlinearity and Delay-dependent coefficient
	A6-3	Nakata	Yukihiko	Period-two solution for a class of distributed delay differential equations
Chair : Guillaume Cantin				

	B6-1	Zhao	Min	Spreading Properties of a City-Road Reaction-diffusion Model on One-Dimensional Lattice
Thursday PM 19/06	**B6-2**	Xue	Yeqing	Stability of Planar Traveling Waves for a Class of Lotka–Volterra Competition Systems with Time Delay and Nonlocal Reaction Term
	B6-3	Li	Hongliang	Spreading speed for a time-periodic vector-borne disease system on a growing domain
Chair : Cyrille Bertelle				
	C6-1	Banerjee	Malay	Effect of parametrization of reaction kinetics on spatiotemporal pattern formation
Thursday PM 19/06	**C6-2**	Balti	Aymen	Mathematical Modeling of Brain Activity Based on Physiological Signals: A Case Study on Emotional Processes
	C6-3	Abba Mahamane	Oumarou	Modèle mathématique du diabète
Chair : Michel Langlais				
Thursday June 19 4:15 PM – 5:15 PM	**PLENARY-6**	Webb	Glenn	Population Models of Epidemics with Infection Age and Vaccination Age Structure
Chair : Andrea Pugliese				
Friday June 20 9 AM – 10 AM	**PLENARY-7**	Eftimie	Raluca	Single scale and multi-scale models of viral infections and anti-viral immune responses
Chair : Raluca Eftimie				
	A7-1	Pugliese	Andrea	Self-regulation and resource dependent growth rates: a size-structured predator-prey model
Friday AM 20/06	**A7-2**	Herrera	Franco	Asymptotic behavior of the solutions to the Gurtin-MacCamy's Population model
Chair : David Manceau				
Friday AM	**B7-1**	Raoul	Gaël	Measure-valued solutions for a structured population with transfers
20/06	**B7-2**	Burie	Jean-Baptiste	Asymptotic behaviour of an epidemic model in measure space
	C7-1	Nicholas	Opoku	Modelling the human immune response dynamics during progression from Mycobacterium latent infection to disease
Friday AM 20/06	**C7-2**	Nag	Soumak	Dynamical analysis of a nonlinear age-structured SIS model with individual movement
Chair : Quentin Griette				
Friday June 20 2 PM – 3 PM	**PLENARY-8**	Ruan	Shigui	The Work of Pierre Magal on Differential Equations, Functional Analysis and Mathematical Biology