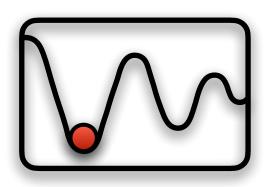
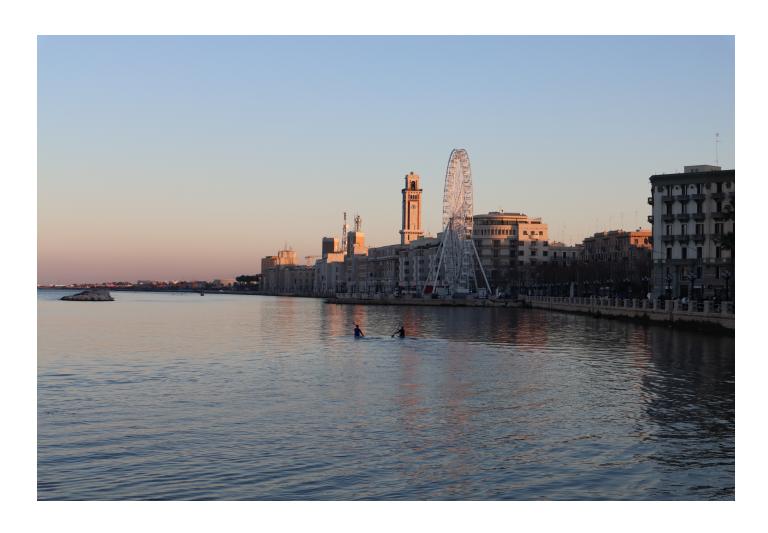
WASCOM 2023, 5 - 9 JUNE, BARI PROGRAM OF THE TALKS













MONDAY 5 JUNE

8.30 - 9.00	Registration
9.00 - 9.30	Welcome Greetings
9.30 - 10.00	<u>Tommaso Ruggeri</u> "Parabolic Limit of a General Hyperbolic System of Rational Extended Thermodynamics via Maxwellian Iteration"
10.00 - 10.15	Marco Menale "A kinetic theory approach to modeling prey-predator ecosystems with expertise levels"
10.15 - 10.30	Gabriele Grifò "The role of autotoxicity in vegetation patterns: from close-to-onset to far-from-threshold dynamics"
10.30 - 11.00	Giuseppe Saccomandi "Waves in dispersive elastic materials"
11.00 - 11.30	Morning Coffee Break
11.30 - 12.00	Maria Carmela Lombardo "Chemotactic models of plaque formation in Multiple Sclerosis"
12.00 - 12.15	<u>Luca Bellino</u> "Thermomechanical effects in decohesion and damage of double-stranded biological materials"
12.15 - 12.30	Annamaria Pollino "A Three Phase Model for Blood Flow"
12.30 - 13.00	Giancarlo Consolo "Hyperbolic reaction-transport systems in the context of dryland ecology"
13.00 - 15.00	Lunch Break
15.00 - 15.30	<u>Takashi Arima</u> "Analysis of molecular internal-relaxation effects on steady flow through simple channels based on
	rational extended thermodynamics"
15.30 - 15.45	rational extended thermodynamics" Giuseppe Alì "Modeling wildland fire propagation with realistic wind and topography data"
15.30 - 15.45 15.45 - 16.00	Giuseppe Alì
	Giuseppe Alì "Modeling wildland fire propagation with realistic wind and topography data" Brull Sthépane
15.45 - 16.00	Giuseppe Alì "Modeling wildland fire propagation with realistic wind and topography data" Brull Sthépane "A well suited approach of some relaxation operators to moment methods"
15.45 - 16.00 16.00 - 16.30	Giuseppe Alì "Modeling wildland fire propagation with realistic wind and topography data" Brull Sthépane "A well suited approach of some relaxation operators to moment methods" Afternoon Coffee Break Giuseppe Mulone
15.45 - 16.00 16.00 - 16.30 16.30 - 17.00	Giuseppe Alì "Modeling wildland fire propagation with realistic wind and topography data" Brull Sthépane "A well suited approach of some relaxation operators to moment methods" Afternoon Coffee Break Giuseppe Mulone "Squire's theorem for nonlinear monotone energy stability of Couette and Poiseuille flows" Carla Perrone
15.45 - 16.00 16.00 - 16.30 16.30 - 17.00 17.00 - 17.15	Giuseppe Alì "Modeling wildland fire propagation with realistic wind and topography data" Brull Sthépane "A well suited approach of some relaxation operators to moment methods" Afternoon Coffee Break Giuseppe Mulone "Squire's theorem for nonlinear monotone energy stability of Couette and Poiseuille flows" Carla Perrone "Monotonic energy stability for inclined laminar flows" Paolo Falsaperla
15.45 - 16.00 16.00 - 16.30 16.30 - 17.00 17.00 - 17.15 17.15 - 17.30	Giuseppe Alì "Modeling wildland fire propagation with realistic wind and topography data" Brull Sthépane "A well suited approach of some relaxation operators to moment methods" Afternoon Coffee Break Giuseppe Mulone "Squire's theorem for nonlinear monotone energy stability of Couette and Poiseuille flows" Carla Perrone "Monotonic energy stability for inclined laminar flows" Paolo Falsaperla "Extended hydrodynamic approach to dynamic high-field transport in monolayer graphene" Romina Travaglini

	TUESDAY 6 JUNE
9.30 - 10.00	<u>Gaetano Napoli</u> "A Thomson-like problem for liquid crystals disclinations"
10.00 - 10.15	<u>Nathalie Bonari Parrilla</u> "Kinetic models for electrons in glow discharge plasmas"
10.15 - 10.30	<u>Ivano Colombaro</u> "Dissipation of energy for Bessel models"
10.30 - 11.00	Shigeru Taniguchi "Shock structure and sub-shocks formation in a mixture of polyatomic gases based on rational extended thermodynamics"
11.00 - 11.30	Morning Coffee Break
11.30 - 12.00	<u>Nicola Pugno</u> "Nanomechanics of Natural, Bioinspired, and Bionic Fibers and Related Composites"
12.00 - 12.15	<u>Carmelo Scuro</u> "2D Numerical Simulation for the Propagation of Elastic Waves in construction brittle material"
12.15 - 12.30	<u>Giorgio Martalò</u> "Pattern formation in a reaction-diffusion model for Multiple Sclerosis with Allee effect"
12.30 - 13.00	Giuseppe Toscani "Social phenomena from the view point of kinetic theory"
13.00 - 15.00	Lunch Break
15.00 - 15.30	Marco Sammartino "Euler and Navier-Stokes equations with data analytic close to the boundary"
15.30 - 15.45	<u>Gaetana Gambino</u> "Emergent structures in a food-web model with intraguild predation"
15.45 - 16.00	Alessandra Rizzo "Solutions to the wave equation for commuting flows of dispersionless PDEs"
16.00 - 16.30	Afternoon Coffee Break
16.30 - 16.45	Gennaro Vitucci "On fundamental flaws in interpreting biaxial tensile tests"
16.45 - 17.00	<u>Davide Riccobelli</u> "Tunable buckling of dielectric-elastomer spherical shells"
17.00 - 17.15	Marzia Bisi "A mixed kinetic model of Boltzmann–BGK type for mixtures of rarefied gases"
17.15 - 17.30	Alberto Tenore "A mathematical model on gene transfer of plasmid-mediated resistance in biofilms"
17.30 - 18.00	Massimiliano Fraldi "Few observations on competitive dynamics in hierarchical living systems"

	WEDNESDAY 7 JUNE
9.30 - 10.00	Florinda Capone "Some Recent Results on Stability Problems in Porous Media"
10.00 - 10.15	<u>Ludovica Fiorentino</u> "Diffusion-driven instability for a Leslie-Gower intraguild model"
10.15 - 10.30	Giuliana Massa "Heat and mass transfer in dual porosity materials"
10.30 - 11.00	Francesca Brini "On the role of dissipation in the dynamics of gas bubbles oscillating in a liquid"
11.00 - 11.30	Morning Coffee Break
11.30 - 12.00	<u>Axel Klar</u> "Kinetic and macroscopic traffic flow equations, instabilities and stop and go waves"
12.00 - 12.15	<u>Francesco Iovanna</u> "Nonlinear stability analysis of a heterogeneous macroscopic traffic flow model"
12.15 - 12.30	<u>Chiara Accarino</u> "Leslie-Gower intraguild predation model"
12.30 - 13.00	<u>Bruno Buonomo</u> "Theory and applications of information index in epidemic models"
13.00 - 15.00	Lunch Break
16.30 - 24.00	GITA ALLE GROTTE DI CASTELLANA e CENA SOCIALE AL RISTORANTE "Taverna degli Amici" Partenza e rientro con Bus da Bari

	THURSDAY 8 JUNE
	THOUSEN STONE
	<u>Laurent Desvillettes</u>
9.30 - 10.00	"Large time behavior of reaction-diffusion systems coming out of reversible chemistry: the case when
	reactions happen only on a subdomain"
10.00 - 10.15	<u>Gaetano Fiore</u>
10.00 - 10.13	"On maximizing the wakefield acceleration induced by short laser pulses on cold plasmas"
10.15 - 10.30	<u>Fiammetta Conforto</u>
_0.15 10.50	"Detonation waves in multi–temperature reacting gas mixtures"
10.30 - 11.00	<u>Michel Destrade</u>
	"Direct acoustic evaluation of stresses and strains in solids"
11.00 - 11.30	Morning Coffee Break
11.30 - 12.00	<u>Henri Gouin</u>
11.30 - 12.00	"The effects of lunisolar tides on plant motions"
12.00 - 12.15	<u>Vincenzo Fazio</u>
12.00 - 12.13	"Constitutive equations for multiscale phenomena: a data modelling approach"
12.15 - 12.30	Salvatore Di Stefano
12.15 - 12.50	"Multiscale modeling of adhering systems"
12.30 - 13.00	<u>Seung-Yeal Ha</u>
12.30 - 13.00	"Four episodes of Kuramoto oscillators"
13.00 - 15.00	Lunch Break
15.00 - 15.30	Michael Dumbser
15.00 15.50	"On structure-preserving schemes for continuum mechanics and magnetohydrodynamics"
15.30 - 15.45	<u>Federico Lisi</u>
15.50 15.45	"Circumferential buckling of a hydrogel tube emptying upon dehydration"
15.45 - 16.00	<u>Carmelo Filippo Munafò</u>
13.43 10.00	"A conservative kinetic model with the external actions and its application in epidemiology"
16.00 - 16.30	Afternoon Coffee Break
16.30 - 17.00	Maria Groppi
10.30 - 17.00	"Kinetic modelling of action potential in neural networks"
	<u>Maria Cristina Carrisi</u>
17.00 - 17.15	"Relativistic Extended Thermodynamics of Polyatomic gases with a new hierarchy of moments in the
	Landau-Lifshitz description"
17.15 - 17.30	Shahine Marwa
	"Fredholm Property of the Linearized Boltzmann Operator for a Mixture of Polyatomic Gases"
17.30 - 17.45	<u>Jacopo Gianfrani</u>
2	"The competing effect of rotation and variable viscosity on LTNE porous convection"
17.45 - 18.00	<u>Vincenzo Luongo</u>
	"Trace metals precipitation in multispecies biofilm systems"

	FRIDAY 9 JUNE
9.30 - 10.00	<u>Andrea Giacobbe</u>
	"Stability of streamwise Couette-Poiseuille and spanwise Poiseuille base flows"
10.00 - 10.15	<u>Luigi Frunzo</u>
	"An upscaled model of multispecies biofilm in homogeneous porous media"
10.15 - 10.30	<u>Maria Luz Gandarias</u>
	"Exact solutions of partial differential equations by using symmetry-invariant conservation laws"
10.30 - 11.00	<u>Brian Straughan</u>
	"Thermal convection in a higher gradient Navier Stokes fluid"
11.00 - 11.30	Morning Coffee Break
11.30 - 12.00	Vincenzo Sciacca
11.30 - 12.00	"Zero viscosity limit of the viscous MHD equations in \mathbb{R}^2 "
12.00 - 12.15	Giuseppe Arnone
12.00 - 12.15	"Density inversion phenomenon in inclined porous media"
	A 1 AA
12.15 - 12.30	<u>Angela Monti</u>
12.15 - 12.30	Angela Monti "On the onset of on-off intermittency in the Beddington-Free-Lawton model with a deterministic
12.15 - 12.30	——————————————————————————————————————
	"On the onset of on-off intermittency in the Beddington-Free-Lawton model with a deterministic
12.15 - 12.30 12.30 - 12.45	"On the onset of on-off intermittency in the Beddington-Free-Lawton model with a deterministic chaotic driver"
	"On the onset of on-off intermittency in the Beddington-Free-Lawton model with a deterministic chaotic driver" <u>Luca Santelli</u>
	"On the onset of on-off intermittency in the Beddington-Free-Lawton model with a deterministic chaotic driver" <u>Luca Santelli</u>
12.30 - 12.45	"On the onset of on-off intermittency in the Beddington-Free-Lawton model with a deterministic chaotic driver" Luca Santelli "Smoothed-Particle Hydrodynamics simulations of viscoelastic integral fractional models"