ICTT-27 DDOVISIONAL SCIENTIFIC DDOGDAM

		ICTT-27 PROVISIONAL SCIENTIFIC PROGRAM
Monday 11/07	Ohaira Barras Carras I	
09:30	<u>Chair: Barry Ganapol</u> Welcome address	
10:00	Barry D. Ganapol	Introduction to ICTT-27
11:00	Vincenzo Molinari, Davide Giusti	On the statistical model of the atom
11:25	Vincenzo Molinari, D. Mostacci	Kinetic theory study of pressure and EoS in a strongly degenerate Fermi gas
11:50	Break	Physics Lefeneral Newarl Network for the concept of Principles (New York Concept or Free State Concept or Free Free State Concept or Free State Concept or Free State Concept or
12:10 12:35	Laura Laghi Jean C. Ragusa	Physics-Informed Neural Networks for Linear One-Dimensional Diffusion-Advection-Reaction Equations Physics-informed Neural Network with Fourier Features for Radiation Transport in Heterogeneous Media
13:00	Enrico Schiassi	Physics-Informed Neural Networks for the Point Kinetics Equations for Nuclear Reactor Dynamics
13:25	Lunch	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
15.00	Chair: Domiziano Mostacci	Parameter Matrice Discrete Conference Solutions of the 4D Follow Planet Fountier
15:00 15:25	Barry D. Ganapol Alberto Previti	Response Matrix Discrete Ordinates Solution of the 1D Fokker-Planck Equation Towards a systematic requirement based approach to build a neutronic study platform
15:50	David Labeurthre	About the construction of finite element bases on 3D hexagonal geometries for neutron transport simulation
16:15	Break	
16:35	Dmitriy Anistratov	Analysis of Noise Effects in Hybrid Transport Methods Based on Low-Order Moment Equations
17:00 17:25	Farzad Rahnema Johan Cufe	A Hybrid High-Order Low-Order COMET Method for Solving Eigenvalue Neutron Transport Problems On the accuracy of the Ronen Method in plane geometry
17:50	Daniele Sciannandrone	A Novel Angular Discretization method for the Neutron Transport Equation: the MPN method
18:15	close	
Tuesday 10/07		
Tuesday 12/07	Chair: Vittorio Romano	
09:30	Richard Sanchez (keynote)	Analysis of the time spectrum of the kinetic transport operator
10:15	Barry D. Ganapol	Numerical Caseology by Lagrange Interpolation for The 1D Neutron Transport Equation In A Slab
10:40	Marco Tiberga	A Novel High-Order Surface Characteristics Scheme for the Neutron Transport Equation on 2D Unstructured Meshes
11:05 11;30	Break Philippe Humbert	Neutron Count Probability Approximations Using Moments, Meixner Polynomial Expansion and N-Forked Approximation
11:50	Torsten Keßler	Entropy-stable Galerkin methods for the Boltzmann equation
12:15	William Bennett	Benchmark Quality Time-dependent Transport Solutions Using a Moving Mesh
12:40	Lunch	
	Chair: Richard Sanchez	
15:00	Enrico Masiello	Angular flux asymptotic expansion applied to discrete-ordinates source iterations for lattice depletion calculations
15:25	Théophile Bonnet	Analysis of the correlation functions for the neutron and precursor populations at criticality
15:50	Francesco Filiciotto	Non-Conforming 3D Model for PWR Control-Rod Movements without Homogenization and Cusping Effect
16:15 16:40	Alberto Previti Break	Comparative analysis between fuel assembly calculation capabilities using APOLLO2 and APOLLO3® codes
17:00	Ana Carpio	Kinetic models for angiogenesis: analysis and simulation
17:25	Gael Poette	Revisiting the learning process in Machine Learning from a partial differential equation point of view: what transport can bring
17:50 18:15	Luis L. Bonilla	Swarm formation
17:50 18:15	Luis L. Bonilla close	Swarm formation
18:15	close	
18:15 Wednesday 13/07		No sessions
18:15	close	
18:15 Wednesday 13/07	close	
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat	no sessions State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez	**Recovering of an X-ray Spectrum from Detector Influence** **Recovering of an X-ray Spectrum
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez	**Recovering of an X-ray Spectrum from Detector Influence** **Recovering of an X-ray Spectrum
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35	Close Field trip Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50	Close Field trip Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 !6:15	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 !6:15 16:40	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 !6:15 16:40	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable Nal(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05 Friday 15/07	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05 Friday 15/07 09:00 10:00 10:25	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov Eugene d'Eon (keynote) Maria Groppi Marzia Bisi	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling Step Correlations in Non-Classical Transport using 1D Point Processes A mixed BGK-Boltzmann model for inert gas mixtures A general kinetic model of Boltzmann type for polyatomic gases
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 !6:15 16:40 17:05 Friday 15/07 09:00 10:00 10:25 10:50	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov Eugene d'Eon (keynote) Maria Groppi Marzia Bisi Francesca Brini	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable Nal(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling Step Correlations in Non-Classical Transport using 1D Point Processes A mixed BGK-Boltzmann model for inert gas mixtures
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05 Friday 15/07 09:00 10:00 10:25	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov Eugene d'Eon (keynote) Maria Groppi Marzia Bisi	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling Step Correlations in Non-Classical Transport using 1D Point Processes A mixed BGK-Boltzmann model for inert gas mixtures A general kinetic model of Boltzmann type for polyatomic gases A Rational Extended Thermodynamics description of acceleration waves and oscillating gas bubbles
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05 Friday 15/07 09:00 10:00 10:25 10:50 11:15	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov Eugene d'Eon (keynote) Maria Groppi Marzia Bisi Francesca Brini Break	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling Step Correlations in Non-Classical Transport using 1D Point Processes A mixed BGK-Boltzmann model for inert gas mixtures A general kinetic model of Boltzmann type for polyatomic gases
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05 Friday 15/07 09:00 10:05 10:50 11:15 11:35	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov Eugene d'Eon (keynote) Maria Groppi Marzia Bisi Francesca Brini Break Vittorio Romano	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling Step Correlations in Non-Classical Transport using 1D Point Processes A mixed BGK-Boltzmann model for inert gas mixtures A general kinetic model of Boltzmann type for polystomic gases A Rational Extended Thermodynamics description of acceleration waves and oscillating gas bubbles Charge transport in graphene nanoribbons by means of the semiclassical Boltzmann equation
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05 Friday 15/07 09:00 10:00 10:25 10:50 11:15 11:35 12:00 12:25 12:50	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov Eugene d'Eon (keynote) Maria Groppi Marzia Bisi Francesca Brini Break Vittorio Romano Giorgia Vitanza Massimo. Trovato Vito D. Camiola	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling Step Correlations in Non-Classical Transport using 1D Point Processes A mixed BGK-Boltzmann model for inert gas mixtures A general kinetic model of Boltzmann type for polyatomic gases A Rational Extended Thermodynamics description of acceleration waves and oscillating gas bubbles Charge transport in graphene nanoribbons by means of the semiclassical Boltzmann equation Wigner equations for charge and phonons transport in graphene
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05 Friday 15/07 09:00 10:05 10:25 10:50 11:15 11:35 12:00 12:25	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov Eugene d'Eon (keynote) Maria Groppi Marzia Bisi Francesca Brini Break Vittorio Romano Giorgia Vitanza Massimo. Trovato	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling Step Correlations in Non-Classical Transport using 1D Point Processes A mixed BGK-Boltzmann model for inert gas mixtures A general kinetic model of Boltzmann type for polyatomic gases A Rational Extended Thermodynamics description of acceleration waves and oscillating gas bubbles Charge transport in graphene nanoribbons by means of the semiclassical Boltzmann equation Wigner equations for charge and phonons transport in graphene The Maximum entropy Principle in solid state physics: General approach for dynamic high-Field transport in semiconductor materials and graphene
18:15 Wednesday 13/07 Thursday 14/07 09:00 09:45 10:10 10:35 11:00 11:25 11:45 12:10 12:35 13:00 13:25 15:00 15:25 15:50 16:15 16:40 17:05 Friday 15/07 09:00 10:00 10:25 10:50 11:15 11:35 12:00 12:25 12:50	Chair: Farzad Rahnema Mario Marengo (keynote) Maha Farasat Jorge E. Fernandez Gael Poette Matteo Stanzani Break Shay I. Heizler Richard Vega Paul Cosgrove Jan Bartsch Lunch Chair: Maria Groppi Martina Conte Nadia Loy Youssef El-Khatib Davide Laghi Davide Giusti close Chair: Dmitriy Anistratov Eugene d'Eon (keynote) Maria Groppi Marzia Bisi Francesca Brini Break Vittorio Romano Giorgia Vitanza Massimo. Trovato Vito D. Camiola	State of the art in cyclotrons for radionuclide production in biomedicine Efficiency calibration of a stable NaI(TI) detector for 41Ar for air exhaust systems Full Recovering of an X-ray Spectrum from Detector Influence Building and solving efficient reduced models for the uncertain linear Boltzman equation: applications to neutronics (keff) and photonics Gyrokinetic modelling of plasma transport and investigation on test particle dynamics Discrete implicit Monte-Carlo (DIMC) scheme for simulating radiative transfer problems Implicit Monte Carlo with High Order Finite Element Spatial Discretization Implementation of the Random Ray Method in the Monte Carlo codes SCONE and OpenMC A Monte Carlo framework for optimal control problems governed by multi-species plasma models Multi-cue kinetic model for cell migration on a fiber network Direction-Dependent Turning Leads to Anisotropic Diffusion and Persistence On a regime-switching stochastic epidemic model for COVID-19 A new V&V philosophy for fusion nuclear data libraries From Point Kinetics to Pandemic Evolution Modelling Step Correlations in Non-Classical Transport using 1D Point Processes A mixed BGK-Boltzmann model for inert gas mixtures A general kinetic model of Boltzmann type for polyatomic gases A Rational Extended Thermodynamics description of acceleration waves and oscillating gas bubbles Charge transport in graphene nanoribbons by means of the semiclassical Boltzmann equation Wigner equations for charge and phonons transport in graphene The Maximum entropy Principle in solid state physics: General approach for dynamic high-Field transport in semiconductor materials and graphene