SISSA mathLab 15: 2010-2025

Innovation is Mathematics

October 29, 2025 10:45 - 17:00

SISSA Room 128-129

A day to highlight the innovations driven by mathematics in the environmental, industrial, and medical fields

Program

10:45	Welcome coffee	15:00	Challenges for full and reduced orde
11:15	Institutional greetings Prof. Antonio Lerario – SISSA Math Area Coordinator Prof. Andrea Romanino – SISSA Director		simulation of large scale turbulent flo Dr. Niccolò Tonicello – SISSA mathLab Assistant Professor, iNEST Young Researcher
11:40 12:20	SISSA mathLab: the journey 2010–2025 Prof. Gianluigi Rozza – SISSA mathLab Coordinator Mathematics and mechanics of cancer:	15:15	Cluster-based reduced order modeling in industrial CFD Dr. Antonio Colanera – SISSA mathLab Assistant Professor
12.20	Towards personalized clinical modeling	15:30	Coffee Break
	Dr. Davide Riccobelli – SISSA mathLab tenure-track Assistant Professor	16:00	Smart Structural Design for

14:00 Computational Science in the Age of Al: **Present Challenges, Future Dreams**

Prof. Alfio Quarteroni - Politecnico di Milano Online speech

Networking Light Lunch

Panorama Lounge 600, 6th floor

14:30 From bifurcations to machine learning: a mathLab path

> Dr. Federico Pichi - SISSA mathLab Assistant Professor, iNEST Young Researcher

Towards real-time simulations 14:45 for cardiovascular digital twins

> Dr. Pasquale Claudio Africa – SISSA mathLab Assistant Professor, iNEST Young Researcher

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Passenger Ships

Eng. Mauro Sicchiero - Fincantieri

16:20 Shape design in marine hydro-dynamics

> Dr. Nicola Demo - SISSA mathLab Comp. Tech. Specialist

16:35 **FAST Computing: from ARGOS ERC PoC to SISSA start-up**

Dr. Andrea Martini - SISSA mathLab, FAST Computing

16:45 **FVG Innovation Valley**

Dr. Sonia Lussi – Confindustria Alto Adriatico

17:00 **Conclusions**

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13:00







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