

# **SIRR International Day: 2025 - Simulation and Biological Damage prediction**

Monday, 6 October 2025 - Monday, 6 October 2025

INFN-LNS



## **Book of Abstracts**



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## **Introduction to SIRR and its collaboration with INFN**

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## **Geant4 and Geant4-DNA: Monte Carlo Simulations Across Scales**

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## **Geant4-DNA Chemistry Modelling: General Overview, current status and future developments**

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## **Biophysical Advances in Action: Navigating Complexity to Shape the Future of Clinical Care**

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## **Radiation Biophysical modeling and understanding of Ultra-high dose rate response: present status and challenges**

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## **Shaping the Future: Strategic Roadmap for Ultrafast Radiation Biology with laser-driven radiations**