



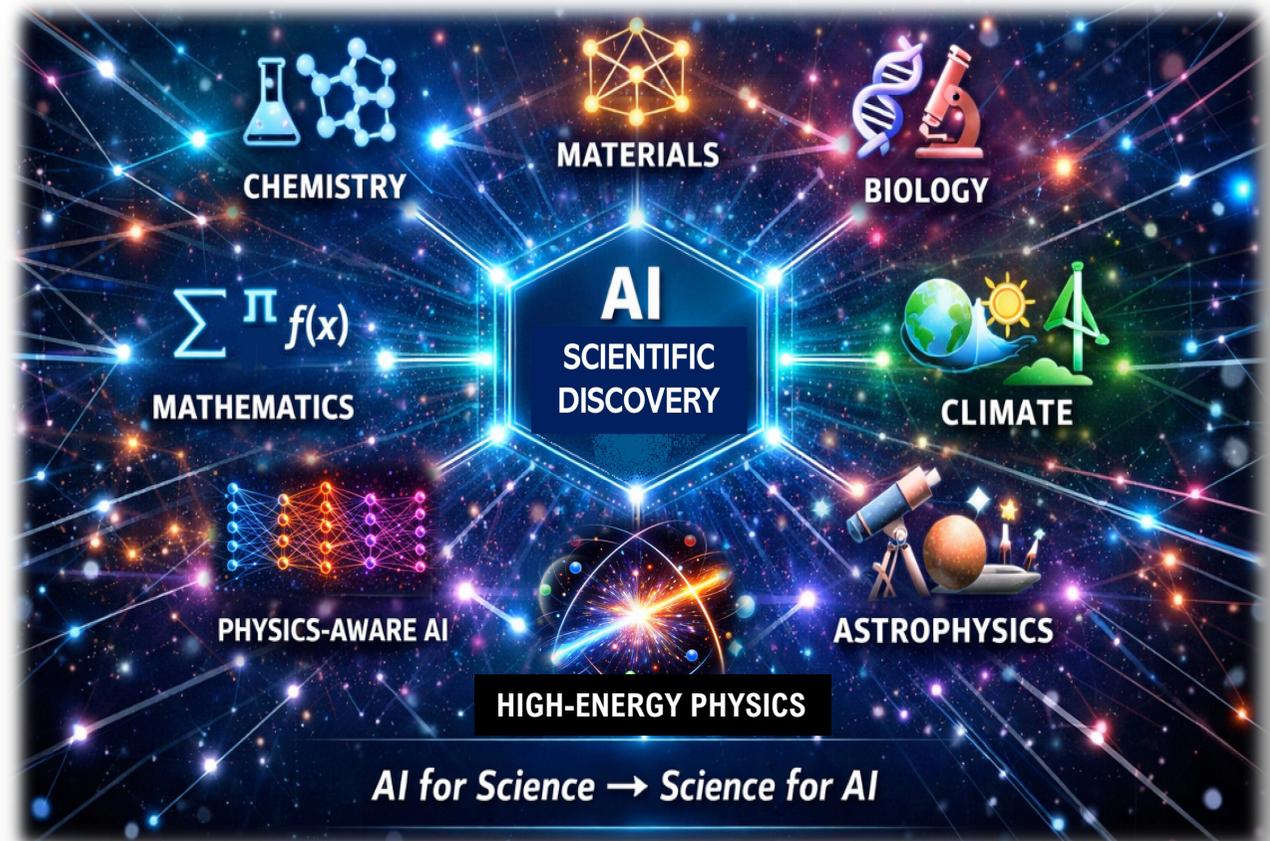
# AI4SCIENCE

*Launch Day, March 9<sup>th</sup>, 2026*



# AI4SCIENCE@SCAI

- Accelerate AI-assisted discovery across disciplines
- Foster cross-disciplinary synergies
- Scale AI models for scientific challenges
- Amplify visibility and impact



# Programme



9h Accueil-Coffee

9h30-Opening (E. Angel-Perez, E. Fleury, M. Knoop)

9h45 Keynote1 – Karthik Duraisamy

10h30 AI4Chemistry-AI4Materials-AI4Biology

11h30 Table ronde 1: *AI4Science as a pathway to innovation*

12h30-13h45 Buffet lunch, networking

13h45 Keynote2 – Jesse Thaler

14h30 AI4Climate-AI4Astrophysics-Physics-aware AI

15h30 Table ronde 2: *AI for Science, Science for AI*

16h30 Summary, recommendations, next steps and closing.

17h00 End of the day



# AI4Science as a pathway to innovation



A. Duval

ENTALPIC



R. Elie



S. Gigan



J.-P. Piquemal



Moderator



P. Gallinari  
ISIR, SU

# AI4Science as a pathway to innovation



- **What is your core technological or strategic bet? Are you building tools, domain-specific models, infrastructure, or platforms? How does your approach differ from traditional simulation?**
- **Where is the real value capture? Is AI4Science already economically viable? Is scale (data, compute, foundation models) becoming decisive?**
- **What are the main scientific, industrial, or regulatory challenges? What is the single biggest obstacle over the next five years?**
- **How will AI transform scientific R&D over the next decade?**

# AI for Science, Science for AI



G. Biau,  
SCAI-SU



A. Butter,  
LPNHE, IML-CERN



K. Duraisamy,  
U. Michigan



J. Fadili,  
CNRS-AISSAI



M. Husson  
CNRS-LTE



J. Thaler,  
MIT

Moderator



P. Cinnella,  
SCAi, D'Alembert, SU

# AI for Science, Science for AI



- **Does AI Change Science? Does AI accelerate existing workflows, or transform how scientific questions are formulated? Examples of major successes or failures.**
- **Does Science Change AI? What constraints from physics, biology, climate, etc., are pushing AI beyond generic deep learning? What methodological evolutions are required?**
- **Validation & Trust: How should AI-generated scientific knowledge be validated? Reproducibility, interpretability, experimental confirmation.**
- **Limits & Risks: Data scarcity, storage, energy, compute concentration, ethical or epistemic concerns.**
- **Looking Forward: Are we moving toward AI as a new scientific instrument? What will science look like in 10 years?**