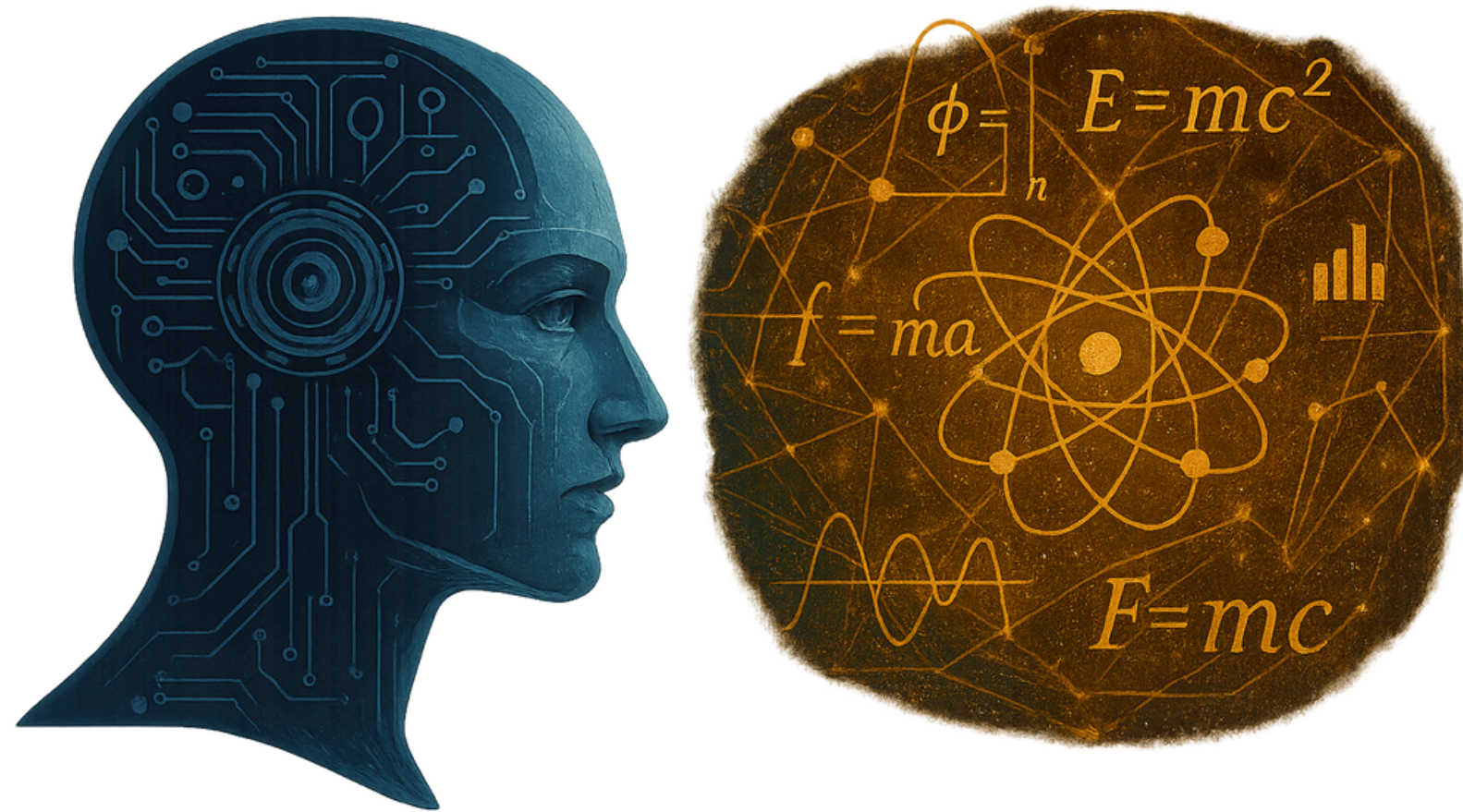


# Panel Discussion

*Does Physics need AI? Does AI need Physics?*

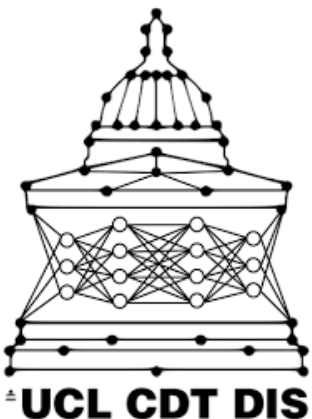
AI for Data Intensive Science & Industry workshop, UCL, 30 June – 2 July 2025



Facilitated by Jason McEwen

Professor  
Mullard Space Science Laboratory (MSSL), UCL

Mission Director, Fundamental AI for Physical Systems  
Alan Turing Institute



# Panel



**Ben Wandelt**

Professor  
Department of Physics & Astronomy  
Department of Mathematics & Statistics  
John Hopkins University



**Iulia Georgescu**

Science & Innovation Manager  
Institute of Physics (IoP)



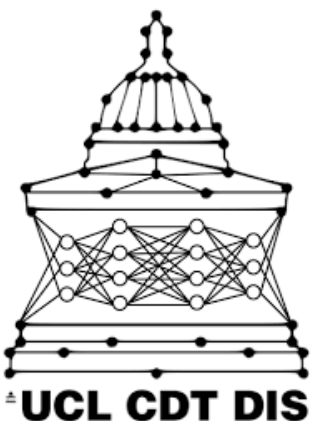
**Andrew Duncan**

Professor  
Department of Mathematics  
Imperial College  
  
Director of Science & Innovation  
Alan Turing Institute



**Sarah Malik**

Royal Society University Research Fellow  
Department of Physics & Astronomy  
UCL



# Does Physics need AI?



**Freeman Dyson**

Distinguished physicist  
& mathematician

"Science is not a machine. It is a human activity, and the best science emerges from imagination, not from algorithms."

# Does AI need Physics?



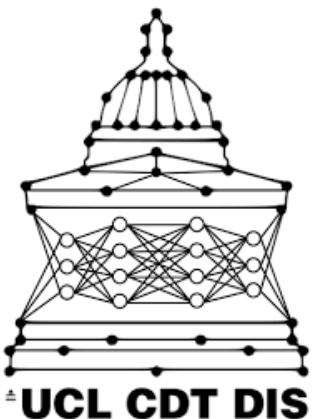
**Rich Sutton**

Turing Award  
winner

Bitter lesson:

"... building in how we think we think  
does not work in the long run."

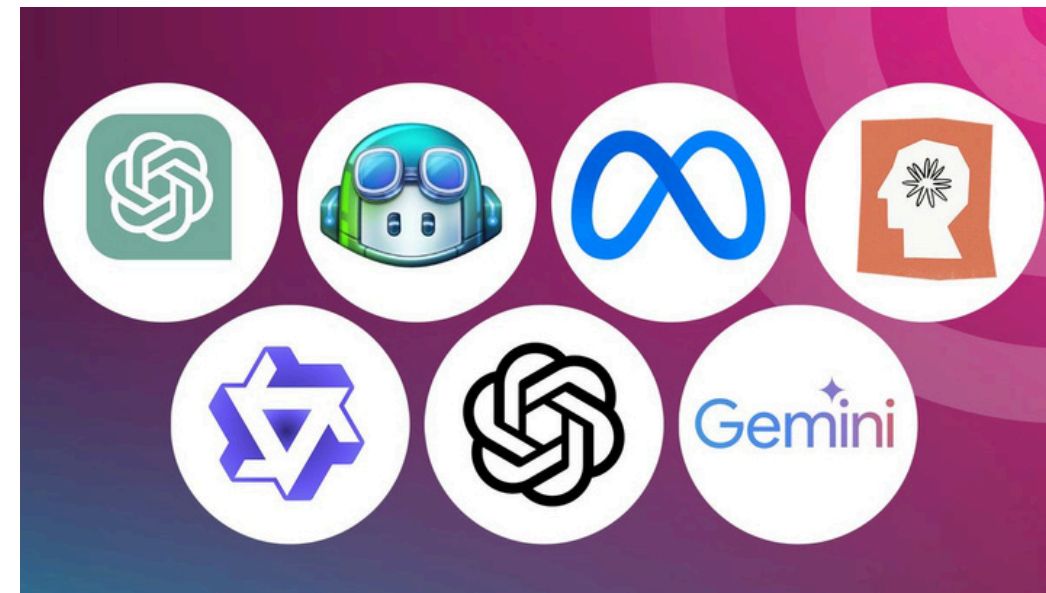
<http://www.incompleteideas.net/IncIdeas/BitterLesson.html>



# How will recent AI breakthroughs impact physics?



Foundation models  
for science



Large language models  
(LLMs)



Agents

# Questions

