

# EXPLORE

EXPeriential Learning  
Opportunity through  
Research & EXchange

Academic year  
2023/24

## Welcome to the EXPLORE 2024 summer school!



Partners



# We welcome

## **Mikael Horstmann**

City councillor of Frankfurt am Main

## **Prof. Dr. Eckhard Elsen**

Scientific director of the Frankfurt Institute for Advanced Studies (FIAS)

## **Prof. Dr. Reinhard Dörner**

Dean of Studies of the Physics Department of Goethe University Frankfurt

## **Dr. Mohab Abou Zeid**

Administrative director of the Research Cluster ELEMENTS

## **Leonora Jürgens**

Program Manager of the Goethe Research Exchange Program (GREP)

# We welcome

## **The lecturers and speakers of the summer school:**

**Prof. Dr. Camilla Hansen**

Goethe University Frankfurt

**Bipradeep Saha**

Indian Institute of Science Education and Research, Kolkata &

Max Planck Institute for Astronomy

**Prof. Dr. Elisa Ferreira**

Kavli Institute for the Physics and Mathematics of the Universe, University of Tokyo &

Universidade de São Paulo

**All international students and all students from Goethe University!**



# We thank



The Academic Innovation Fund (AIF) of York University

The Research Cluster ELEMENTS

The Goethe Research Experience Program (GREP)

The Frankfurt Institute for Advanced Studies (FIAS)

for their generous support



# What is EXPLORE?

**EXPLORE** = **EXP**eriential **L**earning **O**ppportunity  
through **R**esearch and **E**xchange

International innovative teaching and research  
program

Builds bridge between learning physics in a  
classroom and working as a scientist

Brings together students and mentors from the  
four EXPLORE partner universities



Credit: Steffen Böttcher ©Goethe University – GREP



# Where we are



Goethe University



FIAS



Frankfurt, Germany



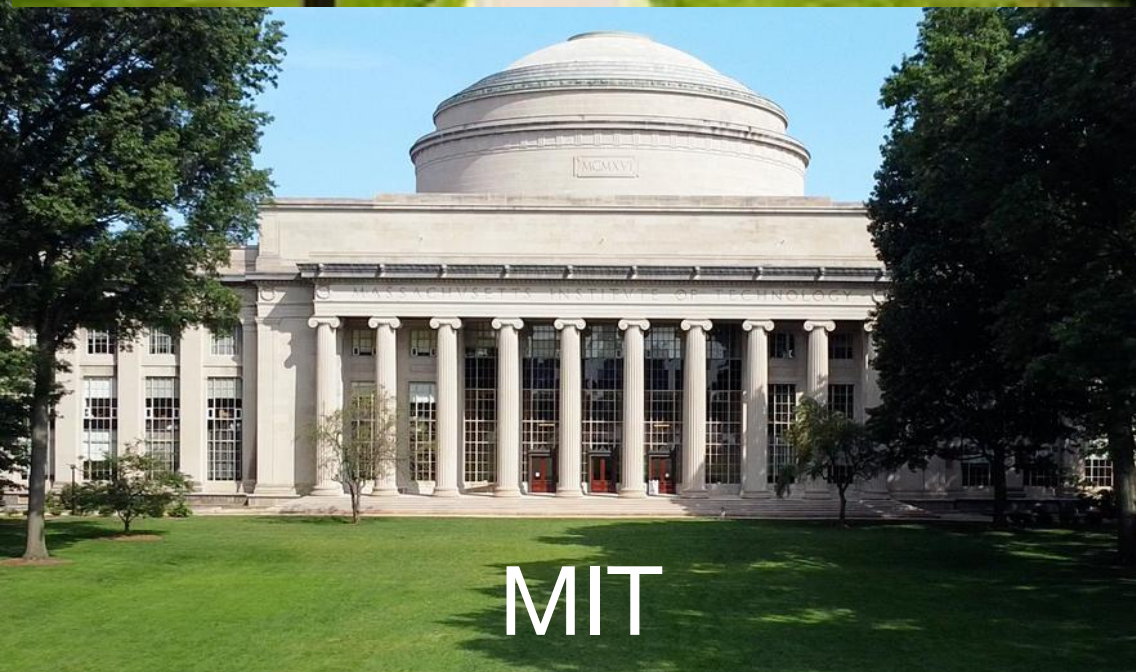
York University



University of Alberta



Edmonton, Canada



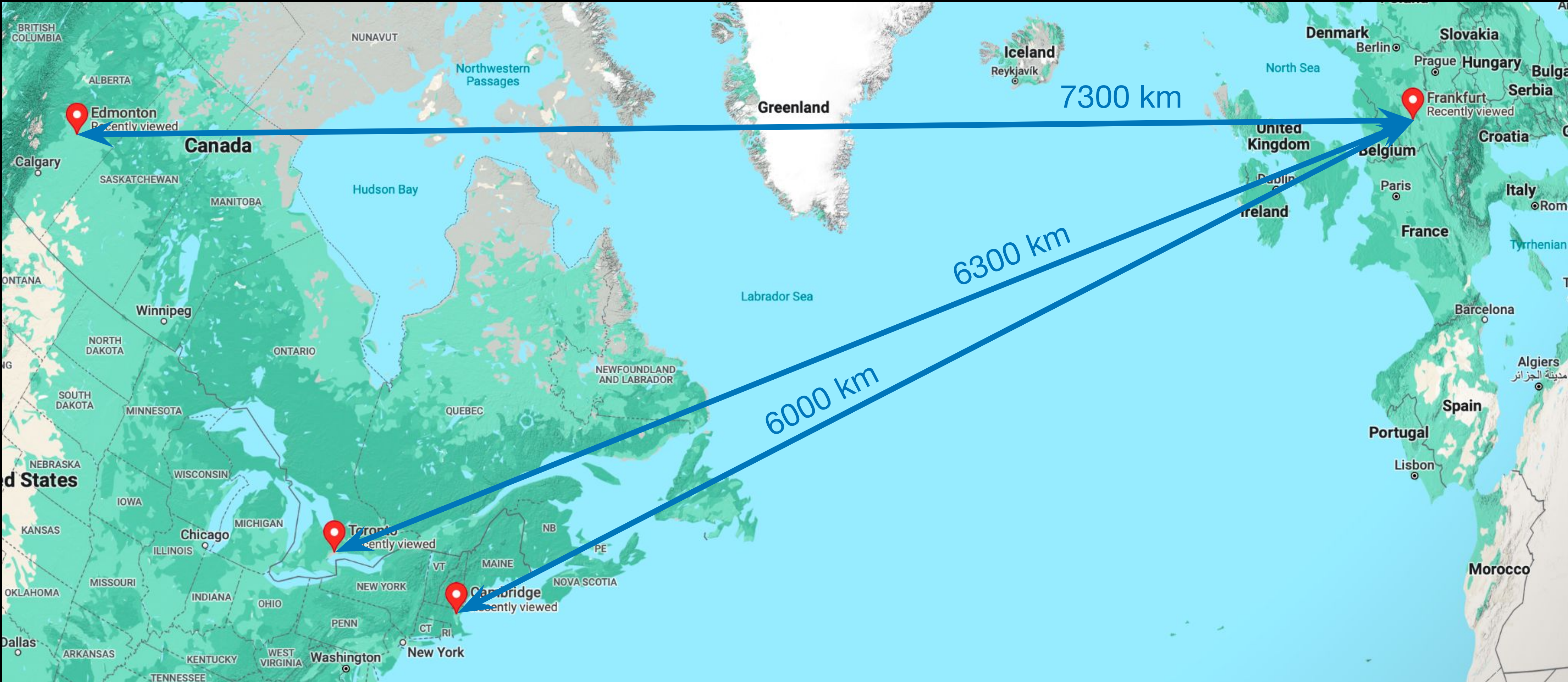
MIT



Cambridge, USA



# Where we are





# Who we are: EXPLORE mentors





# How does EXPLORE work?

Supervised by mentors, students work together in international, diverse teams on **real research projects**

Research in astrophysics and gravitational physics

This edition's research theme: **"Frontiers of Matter and Gravity in the Universe"**

**Highlight** of every edition:  
**EXPLORE summer school** where all students meet



Credit: Steffen Böttcher ©Goethe University – GREP



# History of EXPLORE



2020

2021

2022

2023

2024

The idea of  
EXPLORE is born

EXPLORE I  
starts

EXPLORE II

First EXPLORE summer  
school at Goethe  
University

EXPLORE III

EXPLORE summer school  
at the University of Alberta

EXPLORE IV

EXPLORE summer school at  
Goethe University

First long-term research stays  
abroad



# Next edition of EXPLORE

2025

EXPLORE V (winter term 2024/25)

EXPLORE summer school at York University

Long-term research stays abroad

Register here:

<https://olat-ce.server.uni-frankfurt.de/olat/auth/RepositoryEntry/22240329745>

<https://olat-ce.server.uni-frankfurt.de/olat/auth/RepositoryEntry/22240329747>



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## Let us start the EXPLORE 2024 summer school!



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