



THEORETICAL  
**NEUTRINO PHYSICS  
AND ASTROPHYSICS**  
LECTURE COURSE

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COMING SPRING 2024



- **TWO-WEEK BLOCK LECTURE COURSE (IN PERSON)**
- **TRAVEL IS FINANCIALLY SUPPORTED BY OXFORD BERLIN RESEARCH PARTNERSHIP**
- **ORGANISATIONAL MEETING IN NOVEMBER 2023 (ONLINE)**
- **EXPERIENCE LIFE AND ACADEMIC ENVIRONMENT AT “THE OTHER” PLACE!**



**OXFORD**

**18.-22.03.2024**

**BERLIN**

**08.-12.04.2024**



John Cairns, Oxford University, and Florian Wehde, Unsplash

## **COURSE CONTENTS**

- **NEUTRINO OSCILLATIONS**
- **ORIGIN OF NEUTRINO MASSES AND MIXINGS**
- **NEUTRINOS FROM COSMIC ACCELERATORS**
- **MULTI-MESSENGER ASTROPHYSICS**
- **GROUP WORK AND GUEST SPEAKERS**



**APPLY UNTIL 15 NOVEMBER 2023. FOR DETAILS SEE**  
<https://www.zeuthen.desy.de/~wwinter/Teach/Neutrinos/neutrinos24.html>