

NUPHYS2023 PROSPECTS IN NEUTRINO PHYSICS

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KING'S COLLEGE, LONDON
18TH TO 20TH DECEMBER 2023**



NuPhys 2023

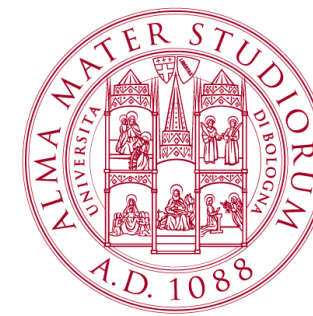
PROSPECTS IN NEUTRINO PHYSICS

King's College London, 18th-20th December 2023

<https://indico.cern.ch/e/nuphys2023>

The conference on the unresolved issues in neutrino physics
is back!

Covering: Theoretical and phenomenological perspectives | Future long and short
baseline neutrino oscillation experiments | Reactor neutrinos and fluxes |
Neutrinoless double beta decay | Solar, atmospheric and supernova neutrinos |
Neutrino cosmology



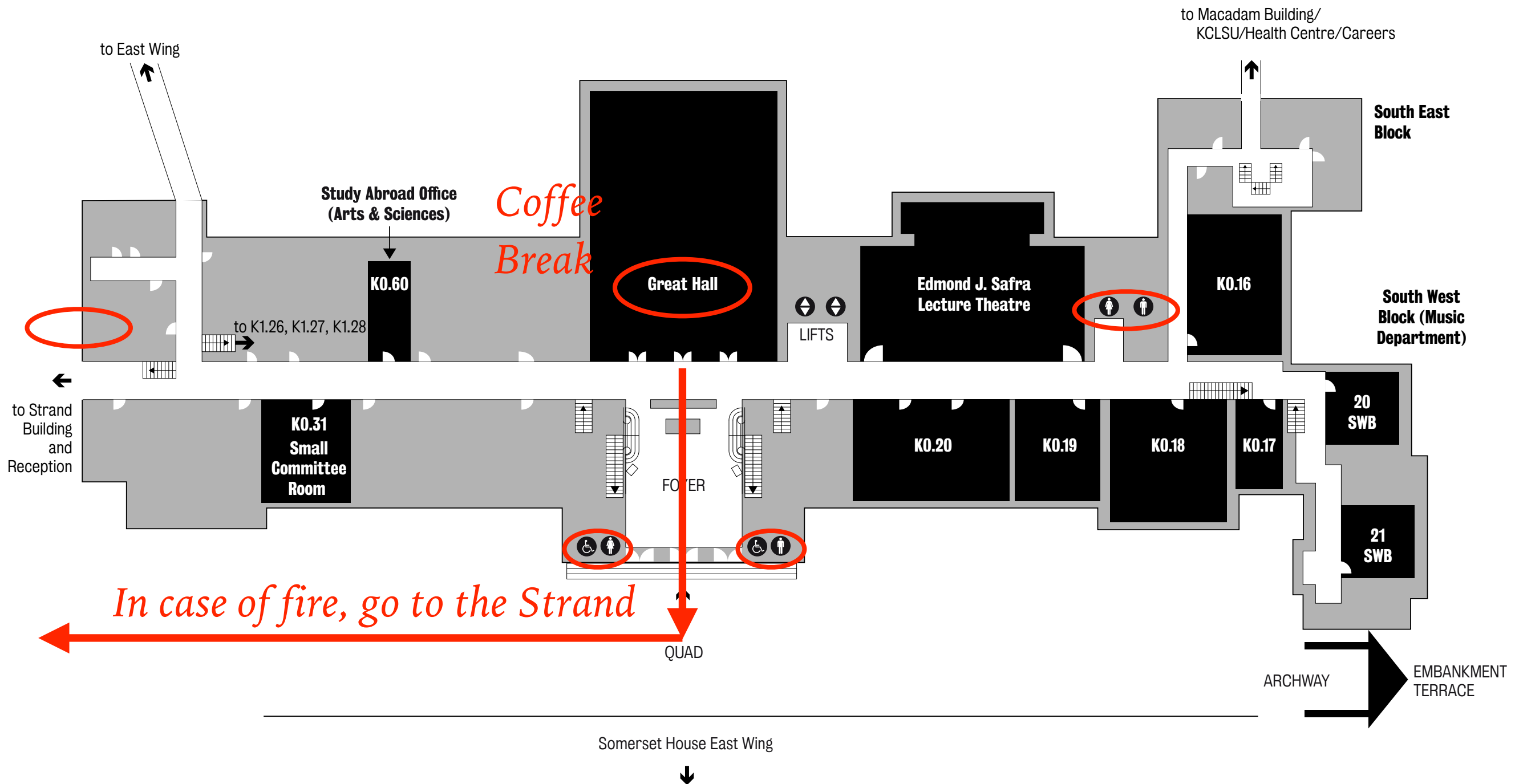
Science and
Technology
Facilities Council

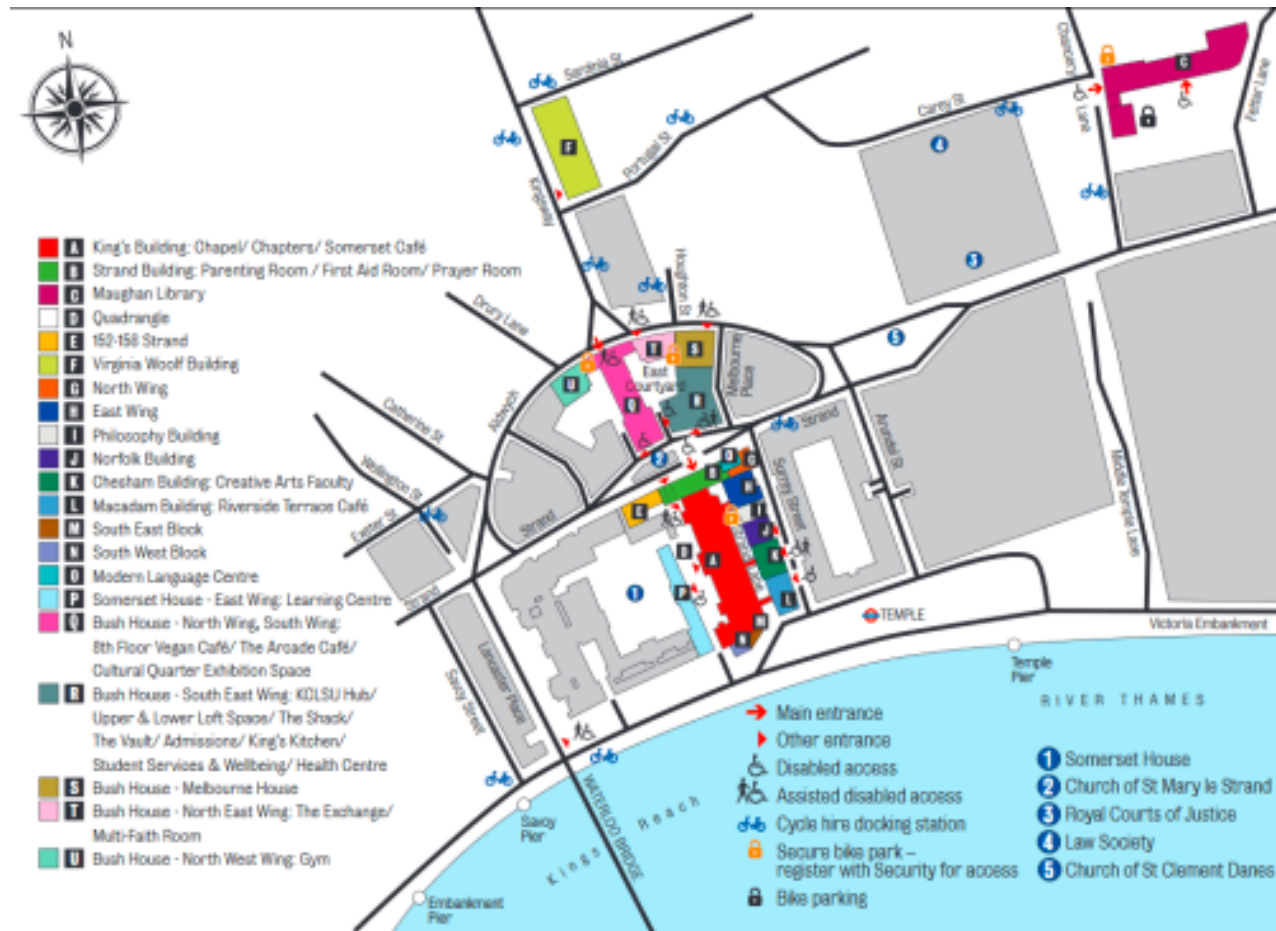
KING'S BY NUMBERS

- **1829** - The foundation of King's. King's College London is one of England's oldest and most prestigious universities, founded within the tradition of the Church of England by **King George IV** and the **Duke of Wellington** who granted our royal charter in 1829.
- More than **33,000** students from over **190** countries around the world
- More than **250,000** alumni across the world
- **£273m** annual research income
- **6th** in the UK for research 'power' (2021 Research Excellence Framework)
- Ranked **35th** in the world (Times Higher Education World Rankings 2023)
- **14 Nobel Laureates** (including Archbishop Emeritus Desmond Tutu for his role in South Africa's anti-apartheid campaign, and Professor Michael Levitt for his joint work in developing multiscale models for complex chemical systems.)
- **100%** of the electricity we purchase directly comes from **UK wind energy** (since October 2017). King's target is to be **net zero carbon by 2030**.

Strand Campus

King's Building – Level 0





➤ **Reception and poster session** are held on the 8th floor of Bush House South East Wing entrance.

➤ **Lunch vouchers** will be provided for each day, which can be used in any KCL food establishment. Above the Great Hall (Level 2 by lift, but at the top of the big stairs if by foot), **Chapters** sells sandwiches/salad bowls and cakes. In Bush House, South East Wing basement level (-1), **King's Kitchen/King's Food** has a variety of hot and cold lunch options.



WIFI

- Anyone, including King's visitors, can connect to **Eduroam**.
- Anyone, including King's visitors, can connect to **The Cloud** by simply choosing this network on their mobile device.
- To connect go to your wifi settings on your device, select 'The Cloud' and register if not used before.

ORGANISATIONAL DETAILS

- All talks will take place in the Great Hall (this room).
- All coffee/tea in the Great Hall. Lunches in King's food establishments.
- Drink reception tonight 18:21 - 19:30 on the 8th Floor of Bush House, across the road.
- Poster session is on Tuesday 18:02 - 19:30 on the 8th floor of Bush House.
- Conference picture on Tuesday at the first break.
- Dinner is on Tuesday at 20:00 in the De Vere Grand Connaught Rooms. Welcome drinks are served from 19:45.

OUR PROGRAMME

- We broadly cover topics of common interest to neutrino experiment and theory:
 - **Mon 18th:** atmospheric and high energy neutrinos, multimessengers, gravitational waves, supernovae, dark matter experiments.
 - **Tue 19th:** Neutrino Mixing, cross sections, reactor neutrino theory developments, current and future experiments, current and future long-baseline neutrino experiments, sterile neutrinos.
 - **Wed 20th:** Neutrino facilities at CERN, Dark sector, BSM, muon programme, heavy neutrinos, neutrino less double beta decays, future technologies.