

# Cockcroft Institute Seminar

## A Novel Approach to the Search for CP Violation in the Neutrino Sector: DAEdALUS

**Dr Morgan Wascko**  
Imperial College London

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Walton Rooms A & B, The Cockcroft Institute

### Abstract

DAEdALUS is a concept for an experiment to measure the CP-violation angle in the neutrino sector by producing multiple, intense beams of neutrinos from decays at rest near the proposed large water Cerenkov detector at the Deep Underground Science and Engineering Laboratory. This proposed experiment would have much different systematics than the proposed long baseline neutrino experiment using a beam from Fermilab, and would rely on the recent development of very compact, high energy superconducting cyclotrons. The projected cost of a 1 MW machine makes DAEδALUS an economically effective complement to the long baseline neutrino experiment (LBNE).