

## **Multiphase Fluid Flow In Nuclear systems (MULTIForm) Facility: Current research in the hydrotransport loop**

*Tuesday, 4 November 2025 13:30 (15 minutes)*

The University of Leeds is proudly home to one of the largest nuclear engineering groups within the UK, where multiphase flows are instrumental in much of the work we do. Research at Leeds encompasses the whole fuel cycle, from characterizing bubbly reactor flows and investigation of new molten salt designs to intensified separators and the transportation of nuclear wastes. Additionally, with the UK's push to renew its nuclear power enabling its ambitious Net Zero goals, this is a critical time for nuclear engineering. To support our nuclear mission, both for new nuclear reactors builds and to ensure the safe disposal of legacy wastes, Leeds has established the Multiphase Fluid Flow In Nuclear systems (MULTIForm) suite, as part of the UK's National Nuclear Users Facility (NNUF). Here, we will introduce the MULTIForm facility and how it supports the next generation of nuclear researchers.

### **Technical Track**

Fuel Cycle and Waste Management

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