



Icy Durham Practical Course

Wed 7th Jan – Fri 9th Jan 2026

(Registration: 09.00 Wed 7th Jan 2026 - Sir James Knott Library, Rm.132, Phys. Dept. Durham U.).

<https://superconductivitydurham.webspace.durham.ac.uk/cdt-workshop-critical-current-measurements-on-high-temperature-superconducting-tapes/>

Wednesday 7th January - Day 1: Core HTS skills and knowledge

8.45	9.10	Registration. Welcome/On-line lecture consent.	Registration + Coffee: SJK Library in Physics Dept.
9.10	9.45	Lecture: Safety talk (M. Raine)	SJK Library
9.45	11.15	Lecture: Superconductivity for Fusion (D. Hampshire: 55 min Lect. + 25 mins conv.)	SJK Library
11.15	11.45	RISK Consent + Menu Choices + Coffee	
11.45	13.00	Lab: Solder up HTS samples	Labs 42(ED1), 44(ED2), 72 (ED3) + 48(CD1) + MJR
13.00	14.00	Lunch (Palatine Centre)	
2.00	3.30	Lecture: Cryogenics (C. Monroe: 55 min Lect.+ 25 min conv.)	SJK Library
3.30	3.45	Coffee	
3.30	5.00	Labs: Soldering HTS + I_c (critical current) measurements (1).	Labs 42(ED1), 44(ED2), and 72 (ED3)

Thursday 8th January - Day 2: I_c measurements and magnets

9.00	10.30	Lecture: Computational magnet design (A. Blair: 55 min Lect. + 25 min conv.)	SJK Library/Coffee
10.30	11.00	Coffee break	
11.00	13.30	I_c measurements (Surnames A-K) or Computational workshop (L-Z) - (A.Blair)	Labs 42(ED1), 44(ED2), and 72 (ED3) + SJK Library(CD1 + CD2)/Coffee
13.30	14.30	Lunch (Palatine Centre)	
14.30	17.00	I_c measurements (Surnames L-Z) or Computational workshop (A-K) - (A.Blair)	Labs 42(ED1), 44(ED2), and 72 (ED3) + SJK Library(CD1 + CD2)/Coffee
18.30 – 19.30: Durham Cathedral tour. 20.00: Bistro Italiano, 70 Claypath DH11QT. > 21.30: Ill-defined thereafter...			

Friday 9th January - Day 3: Fusion cables and magnet engineering

09.00	09.10	Choices	SJK Library/Coffee
9.10	10.50	I_c lab surgery or Poster/analysis activity support.	Labs 42(ED1), 44(ED2), and 72 (ED3)+ SJK Library(CD1 + CD2)/Coffee
10.50	11.00	Informal data review (2 Students + Exp. Demonstrators)	SJK Library
11.00	11.30	Coffee break	
11.30	13.00	Lecture: Cables and fusion magnets (S. Wimbush: 55 min Lect. + 25 min conv.)	SJK Library
13.00	14.00	Lunch (Palatine Centre) + Journey home	