## Preliminary schedule for lab hours

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Tue (13.00-16.30)		Thu (13.00-16.30)		Thu 9.00-12.30			
Oct 27	Intro (online)	Oct 29	Day 1: G2 (B208)	Day 1: G1 (			
Nov 3	Day 1: G3 (C137)	Nov 5	Day 2: G2 (C137)				
	Day 2: G1 (B208)		Day 3: G1 (B208)				
Nov 10	Day 2: G3 (SnOW)	Nov 12	Day 3: G3 (B208)				
	Day 3: G2 (B208)						
Nov 17	Day 4: G1 (SnOW)	Nov 19	Day 4: G2 (SnOW)				
	Day 5: G3 (B208)		Day 5: G1 (B208)				
Nov 24	Day 4: G3 (SnOW)	Nov 26	Summary of results, report instructions (all groups, online)				
	Day 5: G2 (B208)						

SnOW: Student labs, meeting at student lab lobby

B208: 2nd floor, lab room along the corridor. Enter from student lab lobby, take the stairways up, then left and left

C137: Basement floor. Meeting at student lab lobby

## Contents of the lab days:

Day 1: Synthesis of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> (YBCO): 3-3.5 h

Day 2: Treatment of YBCO and synthesis of Y(In,Mn)O<sub>3</sub>: 3-4 h

Day 3: Analysis of YBCO: 3.5-4 h

Day 4: Analysis of Y(In,Mn)O<sub>3</sub>: 3-4 h

Day 5: Aqueous vanadium chemistry: 3-3.5 h

## Methods, equipments

Day 1: G1 (SnOW)

Day 1: Solid-state synthesis, ball milling

Day 2: Thermogravimetry and temperature-controlled reduction, synthesis: sol-gel

Day 3: Handling of liquid N<sub>2</sub>, XRD, RedOx under inert conditions

Day 4: XRF, Solid-state Vis spectrometery

Day 5: SO<sub>2</sub>-gas reduction, titration