

Part II Project Talks 2021

Thursday 6th May 2021 (Week 2, Trinity Term)
Via MS Teams (due to Covid-19 pandemic)

Time	Student	Supervisor	Title of Talk
Thursday 6th May			
9.30	Pre-talk meeting (Judges only)		
10.00	Introduction: Prof. Keyna O'Reilly		
10.15	1. Steph BUDENBERG	Prof. Jan Czernuszka	Characterisation of Heart Valves
10.30	2. Calum CUNNINGHAM	Dr Rebecca Nicholls & Prof. David Armstrong	DFT modelling of SiC composites for jet engines
10.45	3. Carrie FORSDYKE	Prof. Michael Moody, Prof. David Armstrong & Dr Paul Bagot	Characterising atomic scale microstructure in alloys designed for fission and fusion reactors
11.00	BREAK		
11.10	4. Kieran RIVERS	Prof. Angus Wilkinson & Prof. David Armstrong	Design of an oxidation resistance refractory high entropy alloy for nuclear applications
11.25	5. Rory ROSE	Prof. Angus Wilkinson & Dr Jicheng Gong	Ultrasonic fatigue testing
11.40	6. Cassie SONG	Prof. Jason Smith	Quantum Gates Using Nitrogen Vacancy Centres in Diamond
11.55	7. Charlie PEARSON	Prof. Simon Benjamin	Evaluation of the performance of the surface code for fault-tolerant quantum computation
12.10	Lunch Break		
13.30	8. Agastya PISHARODY	Prof. Jonathan Yates & Dr Joe Prentice	Predicting and understanding the colours of crystals
13.45	9. Jake TURNER	Prof. Jonathan Yates & Dr Volker Deringer	Machine learning scalar and tensor NMR parameters
14.00	10. Sam MILLER	Prof. Jonathan Yates & Prof. Mauro Pasta	Modelling Li-rich Anti-perovskite Solid Electrolyte
14.15	BREAK		
14.25	11. Helen LEUNG	Prof. Angus Kirkland & Dr Chen Huang	Scalable HRTEM Image Simulation of Molybdenum Disulphide Monolayers for Machine-Learning Data Set
14.40	12. Ben JAGGER	Prof. Chris Grovenor & Prof. Susie Speller	Nitrogen-Doping in LAGP Solid Electrolytes
14.55	End – Judges to convene separately		