Day 1 - October 26		
8:30-9:00	Arrival and opening remarks	
Session 1 Ion Imaging Systems 1		Chair: Charles-Antoine Collins-Fekete
9:00 - 9:30	Transforming Proton Therapy: Advancing Treatment Efficiency and Cost-effectiveness with an Ultra-Compact Facility	**Vivek Maradia (invited)**
9:30 - 9:50	Development of a time-of-flight ion computed tomography system based on ultra-fast silicon sensors	Felix Ulrich-Pur
9:50 - 10:10	Glass scintillator materials for integrating-mode proton radiography	Daniel Robertson
10:10 - 10:30	OPTIma: Proton Computed Tomography in High Proton Flux Environments	Nigel Allinson
10:30 - 10:50	A comparison of carbon ions versus protons for integrated mode imaging	Mikaël Simard
Coffee break 10:50 - 11:20		
Session 2 Adaptive Ion Therapy		Chair: Simon Rit
11:20 - 11:40	Model-based and data-driven approaches for ion/X-ray hybrid imaging in adaptive ion beam therapy	Chiara Gianoli
11:40 - 12:00	2D-3D registration driven by proton radiographies for adaptive proton therapy applications	Prasannakumar Palaniappan
Lunch 12:00 - 13:30		
Session 3 Motion Management		Chair: Chiara Gianoli
13:30 - 14:00	Proton Beam Therapy and Imaging: A Clinical Scientist's Perspective	**Matthew Lowe (invited)**
14:00 - 14:20	Dynamic particle radiography for real-time image guidance: background, status and perspectives	Lennart Volz
14:20 : 14:40	Update on the HELIOS project: feasibility study on motion management in range-guided particle therapy	Alexander Pryanichnikov
14:40 - 15:00	Real-time imaging of motion using integrated-mode ion radiographs – towards lung tumour tracking in particle therapy	Ryan Fullarton
Coffee break 15:00 - 15:30		
Session 4 Clinical applications 1		Chair: Esther Bär (TBC)
15:30-15:50	Deep Learning for Patient-Specific Calibration of X-ray CT Using Sparse Ion Radiographies	Ines Butz
15:50-16:10	Spread-out Bragg Peak Measurements using a Compact Quality Assurance Range Calorimeter at the Clatterbridge Cancer Centre	Saad Shaikh
16:10-16:30	FLASH Range QA Measurements with the Quality Assurance Range Calorimeter (QuARC)	Sonia Escribano Rodriguez
Social dinner 19:00		

Day 2 - October 27		
Session 5 Clinical applications 2		Chair: Mikaël Simard
9:30 - 10:00	Pros and cons of imaging innovations in clinical practice	**Esther Bär (invited)**
10:00 - 10:20	Proton Imaging: the Key to Achieving Widespread Early Cancer Detection	Alexander Pryanichnikov
10:20 - 10:40	A novel proton CT biologic phantom for x-ray CT calibration in proton treatment planning	Elena Fogazzi
10:40 - 11:00	Patient positioning with helium beam radiographs (αRads): Feasibility study using an anthropomorphic head phantom and investigation of impact factors on the positioning quality	Tim Gherke
Coffee break 11:00 - 11:30		
Session 6 Prompt Gamma Imaging		Chair: Yannick Boursier
11:30 - 11:50	Artificial intelligence models for dose and prompt gamma emissions in proton therapy	Domagoj Radonic
11:50 - 12:10	Experimental feasibility of Prompt Gamma Time Imaging	Adelie Andre
12:10 - 12:30	An alternating approach to reconstruct Gamma Prompt distribution and Hadron velocity profiles from Time-Of-Flight measurements	Yannick Boursier
Lunch 12:30 - 14:00		
Session 7 Ion Imaging Systems 2		Chair: Lennart Volz
14:00 - 14:20	First test beam of the DMAPS based proton tracker at the proton MiniBeam Radiotherapy line at the Curie Institute	Marc Granado-Gonzalez
14:20 - 14:40	Energy painting with several initial beam energies and thin silicon pixel detectors for imaging of objects with wide WET ranges	Margareta Metzner
14:40 - 15:00	Development of a simulation framework, enabling the investigation of locally tuned single energy proton radiography	Måns Lundberg
15:00 - 15:20	Development of a Range Probe to Improve Dose Delivery Accuracy in Proton Beam Therapy	Josephine Jones
Coffee break 15:20 - 16:00		
UCLH visit (time TBD)		