

Program

Sunday evening, July 9th

Time	Event
18:00	Welcome reception & registration (Grand Café de Zwarte Doos)
20:00	Closing

Monday morning, July 10th

Time	Code	Event/speaker	Chair/title
8:30		Registration	(Auditorium TU/e)
9:15		Conference opening	
9:25		Cold Ions 1	Edgar Vredenburg
[25 min]	I1	McClelland	Cold atom ion sources
[25 min]	I2	Viteau	ColdFIB – a FIB column with a laser cooled source
[25 min]	I3	Wouters	Towards a high resolution Rb ⁺ FIB
[15 min]	O1	Johnson	A Low-Energy Antiproton Beamline for ALPHA-g
10:55		Coffee break	
11:30		Cold Electrons	Francesco Fuso
[25 min]	I4	McCullogh	Cold atom electron sources
[25 min]	I5	Franssen	The TU/e ultrafast and ultracold electron source
[25 min]	I6	Batelaan	Quantum degenerate electron beams
[15 min]	O2	Fedchenko	Time-of-flight microscopy implementation for the study of cold electron beam
13:00		Lunch break	

Monday afternoon, July 10th

Time	Code	Event/speaker	Chair/title
14:30		Cold Atoms	Daniel Comparat
[25 min]	I7	Ott	Electrons and ions meet ultracold atoms
[25 min]	I8	Eder	Atom Eyes: „Scanning HElium atom Microscopy”
[25 min]	I9	Pratt	Surface analysis of nanomaterials using a laser-cooled beam of spin-polarised metastable helium atoms
[15 min]	O3	Smits	Faraday waves in Bose-Einstein condensates
16:00	Coffee break		
16:30		Applications	Peter Mutsaers
[25 min]	I10	Greenzweig	Circuit Edit Challenges and Ion Beam Requirements
[25 min]	I11	Rue	Low-energy and high-resolution ion beams from an applications viewpoint
[25 min]	I12	Jamieson	Quantum computer devices built from shallow implanted single atoms
18:00	Buffet-style dinner		
18:00	Posters		
21:00	Closing		

Tuesday, July 11th

Time	Code	Event/speaker	Chair/title
9:00		Cold Ions 2	Jabez McClelland
[25 min]	I13	Steele	FIB Platform Employing a Low-Temperature Ion Source
[25 min]	I14	Comparat	Forced field ionization of Ry states for the production of monochromatic beams
[25 min]	I15	Sparkes	Disorder-Induced Heating in Ultracold Ion Beams
10:15	Coffee break		
10:45		Microscopy	Kevin Weatherill
[25 min]	I16	Schmidt-Kaler	Single ion microscopy
[25 min]	I17	Gnauck	Helium Ion Microscopy: High resolution Imaging and Nanomachining with He and Ne Ions
[25 min]	I18	Hommelhoff	Quantum electron microscopy – and on photonics-based electron beam control
[15 min]	O4	Juffmann	Multi-pass transmission electron microscopy as a tool for structural biology
12:15	Lunch break		
13:30		Alternate sources	Robert Scholten
[25 min]	I19	Kruit	Nano Aperture Ion Source
[25 min]	I20	Gierak	ElectroHydroDynamic emitters developments for improving Focused Ion Beam machines
[25 min]	I21	Vandervorst	SIMS analysis of advanced semiconductor materials and devices : present and emerging solutions.
14:45	Coffee break		Photo opportunity
15:15	Social program		
18:00	Drinks (restaurant De Kazerne)		
19:00	Conference dinner (restaurant De Kazerne)		
22:00	Closing		

Wednesday, July 12th

Time	Code	Event/speaker	Chair/title
9:00		Materials analysis	Yuval Greenzweig
[25 min]	I22	Tromp	Spectroscopy with the Low Energy Electron Microscope
[25 min]	I23	Grehl	Low Energy Ion Scattering – analyzing the outer monolayer
[25 min]	I24	Wirtz	SIMS performed on the Helium Ion Microscope: new prospects
[15 min]	O5	Verhoeven	A novel method for time-resolved electron energy loss spectroscopy using microwave cavities
10:30	Coffee break		
11:05		Ultrafast Electrons 1	Erik Kieft
[25 min]	I25	Ropers	Ultrafast Transmission Electron Microscopy with Laser-triggered Field Emitters
[25 min]	I26	Musumeci	Sub-10 fs relativistic electron beams with ultralow emittance for ultrafast electron diffraction
[15 min]	O6	Weppelman	Creating ultrafast electron pulses using a microfabricated laser-triggered Beam Blanker
12:10	Lunch break		
13:00		Ultrafast Electrons 2	Jom Luiten
[25 min]	I27	Baum	Electron microscopy of electromagnetic waveforms
[25 min]	I28	Rosenzweig	Ultra-High Brightness Electron Beams From Very-High Field Cryogenic Radiofrequency Photocathode Sources
[15 min]	O7	van Rens	Ultrafast Time-resolved Electron Microscopy using microwave cavities
[10 min]	Conference closing		
14:15	Visit to CQT labs (Cyclotron building)		