

Provisional Program – 5th ITN Celta Summer School / 30st International Travelling Summer School 2021

Day\time	Saturday 10.7	Sunday 11.7	Monday 12.7	Tuesday 13.7	Wednesday 14.7	Thursday 15.7	Friday 16.7
Morning	Arrival & hotel check-in	<ul style="list-style-type: none"> ▪ Fundamental of THz electronics ▪ Fundamental of THz electronics – Design ▪ Fundamental of THz electronics – process/fabrication 	<ul style="list-style-type: none"> ▪ Terahertz measurements methods ▪ THz Schottky Detectors – Design and Application for Particle Accelerator ▪ Photoconductive Terahertz Receivers 	<ul style="list-style-type: none"> ▪ THz sensors – Industrial Applications ▪ THz Optical Materials and Metrology ▪ Terahertz Sensors 	<ul style="list-style-type: none"> ▪ Ultrasound mechanical waves in plant science ▪ THz Nanoscopy for bacteria analysis ▪ On-Wafer measurements at mmw and THz frequencies 	<ul style="list-style-type: none"> ▪ THz Wireless Communications ▪ THz Wireless Communications ▪ THz Excitations in Dirac Matter 	Challenge result presentation
	Registration & lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
Afternoon	Opening Introduction lecture (open to all) 'History of the universe and terahertz astronomy'	<ul style="list-style-type: none"> ▪ Fundamentals of THz Photonics – theory ▪ Bringing Photonics and Electronics together ▪ Terahertz Quantum Cascade lasers 	<ul style="list-style-type: none"> ▪ THz Packaging Technologies 	<ul style="list-style-type: none"> ▪ THz Technologies for Biomedicine ▪ THz Spectroscopy by Quantum Cascades for medical applications 	<ul style="list-style-type: none"> ▪ Entrepreneurship in terahertz Near-Field Microscopy and Spectroscopy 	Group work on challenge	Closing Ceremony
	Poster session	Challenge assignment	Technical/scientific visit	Group work on challenge	Industry Interaction <ul style="list-style-type: none"> ▪ Toptica 	Social visit Dutch culture	
Evening	Social event	Free evening	Social dinner	Free evening	Social event	Free evening	

More detailed information will be released by the end of March 2021.
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