

# M18 Meeting

## EMPIR 19ENV02 RemoteALPHA

15 February 2022, 9:00 – 17:00 CET

Online, Hosted by Alfa Rift

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### Preliminary agenda

All times in Central European Time (CET).

9:00 – 9:30	Technical test of the web conference	
9:30 – 10:00	Registration (partners and collaborators)	
10:00 – 10:15	Welcome and introduction	Sakari Ihantola, AR Faton Krasniqi, PTB
10:15 – 11:15	<b>WP1: New instrumentation for the optical detection of alpha particle emitters in the environment</b> Chair: F. Krasniqi	
	<b>Task 1.2:</b> Optimization of optical configurations for detection of alpha-induced radioluminescence	PTB, IFIN-HH, TAU, LUH
	<b>Task 1.3:</b> Scaling up the optics of radioluminescence detection system for environmental use and its integration in the UAV	PTB, Further discussion will follow in WP3
	<b>Task 1.4:</b> Development of novel optical detection system for remote detection of alpha particles in the environment	PTB Juha Toivonen, TAU (5min)
11:15 – 11:30	Coffee break	
11:30 – 12:20	<b>WP2: Calibration system for the novel-type radioluminescence detector systems</b> Chair: D. Taubert	
	<b>Task 2.1:</b> Development of a fit-to-purpose calibration method	IFIN-HH, LUH Mastaneh Zadehrafai 8 min Annika Klose 15 min

<b>Task 2.2:</b> Design and realization of a dedicated calibration optical radiation source		Dieter Taubert 15 min
<b>Task 2.3:</b> Validation of the calibration method		PTB (Berlin)
12:20 – 13:15	Lunch break	
13:15-14:00	<b>WP3: Mapping of alpha contaminations in the environment using UAVs</b> Chair: A. Vargas	
<b>Task 3.1:</b> Development of unmanned airborne monitoring system + further discussion about Task 1.3		UPC
<b>Task 3.2:</b> Development of software and tools for data acquisition, processing, transmission and analysis		UPC
<b>Task 3.3:</b> Development of test and calibration procedures for unmanned airborne monitoring systems		UPC, PTB
<b>Task 3.4:</b> Measurement campaigns for testing and calibration		UPC, PTB
14:00 – 14:45	<b>WP4: Feasibility study of laser-based techniques for detection of alpha emitters</b> Chair: J. Toivonen	
<b>Task 4.1:</b> Fundamental study on appropriate fluorescence transition in gases		Kim Kalmankoski, TAU
<b>Task 4.2:</b> Design and realization of laser-induced re-excitation scheme		Juha Toivonen, TAU
<b>Task 4.3:</b> Proof-of-principle validation of laser-induced method for detection of alpha emitters		Juha Toivonen, TAU
14:45 – 15:00	Coffee break	
15:00 – 15:45	<b>WP5: Creating impact</b> Chair: S. Ihantola	
<b>Task 5.1:</b> Knowledge transfer		Faton Krasniqi, PTB Mastaneh Zadehrafai, IFIN-HH
<b>Task 5.2:</b> Training		Johan Sand, ALFARIFT István Nikolényi and Györgyi Bela, SZIU
<b>Task 5.3:</b> Uptake and exploitation (Exploitation plan, Stakeholder involvement)		Sakari Ihantola, ALFARIFT

15:45 – 16:30	<b>WP6: Management and coordination</b> Chair: F. Krasniq	
<b>Financial reporting</b>	Susanne Eger, PTB	
<b>Task 6.1:</b> Project management	Faton Krasniqi, PTB	
<b>Task 6.2:</b> Project meetings		
<b>Task 6.3:</b> Project reporting		
<b>Mid-Term Review Conference</b>		
M18 Reporting: Progress Reports, Impact and Output		
16:30 – 17:00	<b>Closing remarks</b> Chair: Faton Krasniqi	