



22IEM03 PriSpecTemp: M9 Meeting Agenda

When	23 May 2024	24 May 2024
GMT+3	9:30 - 18:30	9:00 - ca. 18.30
Where	Kalyon Hotel Istanbul offline: Sultan Ahmet, Kennedy Cad. no:34, 34122 Fatih/Istanbul online:	

23 May	09:30	Welcome	<i>Meeting host: Humbet NASİBLİ</i>	
	09:40	Overview of the PriSpecTemp project	<i>Project coordinator: Gang Li</i>	
	Work Package 1: Spectral line intensities of CO, CO₂ and O₂			
	09:50	Introduction to WP1 - High accuracy spectral line data for spectroscopic gas thermometry	<i>WP1 moderator: Aleksandra Kyuberis</i>	
	10:00	UMK: Progress on line intensities of carbon monoxide	<i>Daniel Lisak, Piotr Mastowski, Yurong Xu</i>	
	10:20	PTB 7.55: Measurements of CO absorption line strengths by TLAS (4.61 - 4.63 μm)	<i>Tom Rubin, André Kussicke</i>	
	10:40	SUN: Design and development of a comb-assisted CRDS at 2 μm	<i>Antonio Castrillo, Livio Gianfrani</i>	
	10:55	Coffee break -15'		
	11:10	PTB 3.1: FTIR-measurements of the O₂ A-band	<i>Kirill Berezkin, Alexandra Lüttschwager</i>	
	11:30	UH: Towards dual-comb spectroscopy of O₂ A-band	<i>Markku Vainio, Touko Uotila</i>	
	11:35	VTT: M9 update on O₂ measurements	<i>Jeremias Seppä</i>	
	11:40	UCL: Extra high accuracy of variational calculations: 10 kHz line positions and 10⁻³ % intensities	<i>Oleg Polyansky</i>	
	12:30	Lunch		
	13:30	Developments in WP1 and discussion	<i>Moderated by Aleksandra Kyuberis</i>	
	Work Package 3: Validation of spectroscopic thermometry			
	14:30	Introduction to WP3 - Validation of gas temperature measurements in spectroscopic setups	<i>WP3 moderator: Kianoosh Hadidi</i>	
	14:35	UME: Temperature stabilization of UME's gas cell	<i>Can Gözönünde</i>	
	14:40	SUN: Design and development of a temperature-stabilized high-finesse optical cavity	<i>Antonio Castrillo</i>	
	14:55	Coffee break - 15'		
	15:10	CEM: Contact Thermometers	<i>Carmen Garcia Izquierdo</i>	
	15:30	JV: Simulation results of the temperature uniformity in the gas cell	<i>Kianoosh Hadidi</i>	
	16:00	NIST: CCQM P229 comparison on CO line intensities	<i>Joseph Hodges</i>	
	16:30	Other talks from stakeholder	<i>TBA</i>	
17:00	Developments in WP3 and discussion	<i>Moderated by Kianoosh Hadidi</i>		
18:30	end of day 1			

24 May

Work Package 2: Methodology and uncertainty evaluation	
09:00	Introduction to WP2 - Development and evaluation of ro-vibrational spectroscopic gas thermometry <i>WP2 moderator: Humbet NASİBLİ</i>
09:05	UME: Comb-based Ro-vibrational Spectroscopic Thermometry (RVSQT) developments at UME <i>Çağrı ŞENEL</i>
09:20	VTT: Computational Models for Multi-line Spectroscopic Thermometry on O₂ at 760 nm <i>Jeremias Seppä</i>
09:30	PTB3.3: Heterogeneity effects on line-of-sight laser absorption spectroscopy <i>Zhechao Qu</i>
09:40	Developments in WP2 and discussion <i>Moderated by Humbet NASİBLİ</i>
10:15	CEM: WP4 - Creating Impact <i>Carmen Garcia Izquierdo</i>
10:45	Coffee break - 15'
11:00	PTB: WP5 - Management and Coordination <i>Gang Li, Judith Krakowski</i>
11:30	5-minute exclusive summary: WP1-WP4 <i>WP leaders</i>
11:50	Closing Remarks <i>Gang Li, Rainer Stosch</i>
12:00	Lunch
13:15	UME laboratory visit: Departure from Kalyon Hotel
	Lab Tours at UME
17:00	Departure from UME back to Istanbul, Kalyon Hotel
	end of day 2 2/2

**M1 Workshop:**

<https://www.prispectemp.ptb.de/project/stakeholders>

EURAMET link:

<https://www.euramet.org/research-innovation/search-research-projects/details/project/primary-spectrometric-thermometry-for-gases>