2025 Spring Meeting of the **Committee on Atomic, Molecular, and Optical Sciences (CAMOS)** May 19-20, 2025 Hybrid Meeting In Person at the Academies NAS Building, Washington, DC Online via Zoom and Livestream

MONDAY, MAY 19, 2025

OPEN SESS	ION	
	n viewable on event page:	
https://www.natio	onalacademies.org/event/45032_05-2025_committee-on-atomic-molecular-and-op	tical-sciences-2025-spring-meeting
9:40 AM	Welcome and Meeting Objectives (5 mins)	Mette Gaarde and Prem Kumar CAMOS Co-Chairs
9:45 AM	Session 1: AMO and Astronomy (2 hours)	
	Atomic Spectroscopy at NIST: Experiment and Modeling for Astrophysics and Astronomy (20 min presentation, 10 min Q&A)	Yuri Ralchenko NIST
	Laboratory Astrophysics & New Astronomical Facilities: Maximizing the Return on Investment (20 min presentation, 10 min Q&A)	Randall Smith Center for Astrophysics
10:45	Break (15 minutes)	
11:00	Resume Session 1 [TBD Title: Interface of AMO Science and NASA] (20 min presentation, 10 min Q&A) Panel discussion (30 min Q&A)	Dan Sirbu (remote) NASA Ames
12:00 PM	Working Lunch with participants	
1:00 PM	Session 2: Quantum Sensing (2 hours)Ron Walsworth Ron Walsworth (20 min presentation, 10 min Q&A)Ron Walsworth University of Maryland[TBD Title: NV Sensing and Sensing Techniques for Quantum Materials]Amir Yacoby Harvard University(20 min presentation, 10 min Q&A)Harvard University Upendra Singh (20 min presentation, 10 min Q&A)Quantum Sensors (QS) for Space Science: An NESC PerspectiveUpendra Singh (20 min presentation, 10 min Q&A)(20 min presentation, 10 min Q&A)NASA Langley Research CenterPanel discussion (30 min Q&A)(30 min Q&A)	
3:00 PM	Break, adjourn open session	
	(Day 2 schedule information on next page,)

TUESDAY, MAY 20, 2025

OPEN SESSION

Public livestream viewable on event page: https://www.nationalacademies.org/event/45032_05-2025_committee-on-atomic-molecular-and-optical-sciences-2025-spring-meeting

9:25 AM	Welcome back	Mette Gaarde and Prem Kumar
		CAMOS Co-Chairs
9:30 AM	Session 3: Agency Updates	
	AFOSR Update	Boyan Tabakov (remote)
	(40 min presentation + 20 min Q&A)	AFOSR
10:30 AM	Quantum Technology for NASA Science	Carolyn Mercer
	(30 min presentation + 20 min Q&A)	NASA Science Mission Directorate
11:20 AM	<i>Working Lunch</i> (60 minutes)	
12:20 PM	Lunchtime Science Keynote	Waseem Bakr (remote)
	(25 min presentation + 15 min Q&A)	Princeton University
1:00 PM	Deployable Quantum Clocks and Sensors (25 min presentation, 15 min Q&A)	Jamil Abo-Shaeer (remote) Vector Atomic
1:40 PM	Public Session Closeout Discussion (20 min)	All speakers and attendees
2:00 PM	Break, adjourn open session (15 mins)	

IMPORTANT NOTES

Presenters:

- Please do not include ITAR-controlled or sensitive information in your presentation.
- A National Academies Board staff member will ask you to sign a form before the meeting allowing us permission to use your likeness and presentation for our livestream video, which will be posted on our Board website after the meeting. Please get in touch with us before the meeting if you have any concerns about this usage.

THANK YOU ALL FOR YOUR COOPERATION, AND WE LOOK FORWARD TO A SUCCESSFUL MEETING.