Daily Agenda

July 15-26, 2024

Monday, July 15, 2024

7:30 AM **Buses depart Volunteer Hall for ORNL Buses arrive Spallation Neutron Source** 8:30 AM 9:00 AM **Opening remarks** Dr. Gina Tourassi, ORNL US Rep. Chuck Fleischman, State of Tennessee Dr. Ceren Susut, Department of Energy Dr. Hal Finkel, Department of Energy Dr. Shaun Gleason, ORNL Mr. Jim Ingraham, EPB 9:30 AM **Keynote presentation** Prof. John Preskill, California Institute of Technology, "Our Quantum Future" 10:45 AM **Break** 11:00 AM **Keynote presentation** Dr. Chetan Nayak, Microsoft, "Topological Quantum Computing with Majorana Zero Modes" 12:00 PM **Hosted lunch** 1:15 PM **Classes begin** Chetan Nayak, Theory of topological superconductivity, 8600/C156 Kathleen Hamilton, Quantum generative models, 8600/C152 Stephen Jesse, Nano-fabrication, 8600/C250 An-Ping Li, Surface science, 8600/AG-06 and AG-07 3:45 PM Classes end 4:00 PM **Buses depart SNS for Volunteer Hall** 5:00 PM **Buses arrive at Volunteer Hall** 5:30 PM Hosted dinner at Student Union Building, Room 272A 6:30 PM Evening self-study session at Mossman Hall, Rooms 204, 210, 211, and 212

Tuesday, July 16, 2024

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7:30 AM	Buses depart Volunteer Hall for ORNL Visitor Center	
8:30 AM	Buses arrive ORNL Visitor Center	
9:00 AM	Keynote presentation	
	Dr. Nick Bronn, IBM, "Simulating quantum dynamics using programmable quantum computers"	
10:45 AM	Break	
11:00 AM	Keynote presentation	
	• Dr. Bibek Pokharel, IBM, "Error mitigation and suppression"	
12:00 PM	Hosted lunch	
1:00 PM	Shuttle departs from ORNL Visitor Center for SNS (Nano-fabrication students only)	
1:15 PM	Classes begin	
	 Chetan Nayak, Theory of topological superconductivity, 5100/140 Kathleen Hamilton, Quantum generative models, 5200/214 Stephen Jesse, Nano-fabrication, 8600/C250 (take shuttle bus at 1:00) An-Ping Li, Surface science, 5200/219 	
3:30 PM	Shuttle departs from SNS for ORNL Visitor Center (Nano-fabrication students only)	
3:45 PM	Classes end	
4:00 PM	Buses depart ORNL Visitor Center for Volunteer Hall	
5:00 PM	Buses arrive at Volunteer Hall	
6:30 PM	Evening self-study session at Mossman Hall, Rooms 204, 210, 211, and 212	

Wednesday, July 17, 2024

7:30 AM Buses depart Volunteer Hall for ORNL Visitor Center

8:30 AM Buses arrive ORNL Visitor Center

9:00 AM Keynote presentation

 Dr. Eddie Schoute, Los Alamos National Laboratory, "Quantum Error Correction: A Brief Tuttorial"

10:15 AM Break

10:45 AM Keynote presentation

 Dr. Eugene Dumitrescu, Oak Ridge National Laboratory, "Topological quantum computing from a theory and algorithms perspective"

12:00 PM Hosted lunch

1:00 PM Group photograph

1:15 PM Poster session begins

3:30 PM Poster session ends

4:00 PM Buses depart ORNL Visitor Center for Volunteer Hall

5:00 PM Buses arrive at Volunteer Hall

Thursday	/, July	18,	2024

7:30 AM	Buses depart Volunteer Hall for ORNL Visitor Center
8:30 AM	Buses arrive ORNL Visitor Center
9:00 AM	Keynote presentation
	• Dr. Vivien Zapf, Los Alamos National Laboratory, "The Quantum Science Center & quantum landscape"
9:40 AM	Keynote presentation
	• Dr. Gabor Halasz, Oak Ridge National Laboratory, "Theory of spin liquids I"
10:20 AM	Break
10:40 AM	Keynote presentation
	Prof. Alan Tennant, University of Tennessee, Knoxville
11:20 AM	Keynote presentation
	Dr. Rob Moore, Oak Ridge National Laboratory
12:00 PM	Hosted lunch
1:00 PM	Shuttle departs from Visitor Center for SNS (Neutron scattering students only)
1:15 PM	Classes begin
	 Gabor Halasz, Theory of spin liquids, 5100/140 Kathleen Hamilton, Quantum generative models, 5200/214 Alan Tennant, Neutron scattering, 8600/C250 (take shuttle bus at 1:00) Eugene Dumitrescu, Topological quantum computing, 5200/219
3:15 PM	Shuttle departs from SNS for Visitor Center (Neutron scattering students only)
3:45 PM	Classes end
4:00 PM	Buses depart ORNL Visitor Center for Volunteer Hall
5:00 PM	Buses arrive at Volunteer Hall
6:30 PM	Evening self-study session at Mossman Hall, Rooms 204, 210, 211, and 212

Friday, July 19, 2024

7:30 AM	Buses depart Volunteer Hall for ORNL Visitor Center
8:30 AM	Buses arrive ORNL Visitor Center
9:00 AM	Keynote presentation
	Dr. Carleton Coffrin, Los Alamos National Laboratory
10:15 AM	Break
10:45 AM	Keynote presentation
	Prof. Jun Ye, Joint Institute for Laboratory Astrophysics
12:00 PM	Hosted lunch
1:00 PM	Shuttle departs from Visitor Center for SNS (Neutron scattering students only)
1:15 PM	Classes begin
	 Gabor Halasz, Theory of spin liquids, 5100/140 Kathleen Hamilton, Quantum generative models, 5200/214 Alan Tennant, Neutron scattering, 8600/C250 (take shuttle bus at 1:00) Eugene Dumitrescu, Topological quantum computing, 5200/219
3:30 PM	Shuttle departs from SNS for Visitor Center (Neutron scattering students only)
3:45 PM	Classes end
4:00 PM	Buses depart SNS for Volunteer Hall
5:00 PM	Buses arrive at Volunteer Hall

Saturday, July 20, 2024

No hosted activities

Sunday, July 21, 2024

No hosted activities

Monday, July 22, 2024

7:30 AM Buses depart Volunteer Hall for SNS

8:30 AM Buses arrive SNS

9:00 AM Keynote presentation

• Drs. Gustavo Cancelo and Sara Sussman, Fermi National Accelerator Laboratory

10:15 AM Break

10:45 AM Keynote presentation

 Prof. Pri Narang, University of California, Los Angeles, "Quantum matter through the lens of quantum information"

12:00 PM Hosted lunch

1:15 PM Classes begin

An-Ping Li, Surface science, 8610/183

Sara Sussman, QICK, 8600/C156

• Stephen Jesse, Nano-fabrication, 8600/C250

Ang Li, Quantum software tools, 8600/C152

Eugene Dumitrescu, Topological quantum computing, 8630/A202

3:45 PM Classes end

4:00 PM Buses depart SNS for Volunteer Hall

5:00 PM Buses arrive at Volunteer Hall

6:30 PM Evening self-study session at Mossman Hall, Rooms 204, 210, 211, and 212

Tuesday, July 23, 2024

7:30 AM Buses depart Volunteer Hall for SNS

8:30 AM Buses arrive SNS

9:00 AM Keynote presentation

• Prof. Enectali Figueroa-Feliciano, Northwestern University

10:15 AM Facility Tours

12:00 PM Hosted lunch

1:15 PM Classes begin

• An-Ping Li, Surface science, 8610/183

Sara Sussman, QICK, 8600/C156

Stephen Jesse, Nano-fabrication, 8600/C250

Ang Li, Quantum software tools, 8600/C152

Eugene Dumitrescu, Topological quantum computing, 8630/A202

3:45 PM Classes end

4:00 PM Buses depart SNS for Volunteer Hall

5:00 PM Buses arrive at Volunteer Hall

6:30 PM Evening self-study session at Mossman Hall, Rooms 204, 210, 211, and 212

Wednesday, July 24, 2024

7:30 AM	Buses depart Volunteer Hall for ORNL Visitor Center
8:30 AM	Buses arrive ORNL Visitor Center
9:00 AM	Keynote presentation
	Dr. Travis Humble, Oak Ridge National Laboratory, "Integrating quantum computing into high-performance computing systems"
10:15 AM	Break
10:45 AM	Keynote presentation
	Dr. Claire Marvinney, Oak Ridge National Laboratory
12:00 PM	Hosted lunch
1:00 PM	Shuttle bus departs to SNS (Neutron scattering students only)
1:15 PM	Classes begin
	 Sagar Vijay, Theory of measurement-induced phenomena, 5200/140 Ang Li, Quantum software tools, 5200/219 Sara Sussman, QICK, 5200/214 Alan Tennant, Neutron scattering, 8600/C250 (take shuttle bus at 1:00 PM)
3:15 PM	Shuttle bus departs to ORNL Visitor Center
3:45 PM	Classes end
4:00 PM	Buses depart SNS for Volunteer Hall
5:00 PM	Buses arrive at Volunteer Hall
6:30 PM	Evening self-study session at Mossman Hall, Rooms 204, 210, 211, and 212

Thursday, July 25, 2024

7:30 AM Buses depart Volunteer Hall for ORNL Visitor Center

8:30 AM Buses arrive ORNL Visitor Center

9:00 AM Keynote presentation

• Dr. Katarzyna Krzyzanowska, Los Alamos National Laboratory

10:15 AM Break

10:45 AM Keynote presentation

• Anne Sherwood, DOE – Internship Opportunities

12:00 PM Hosted lunch

1:00 PM Shuttle bus departs to SNS (Neutron scattering students only)

1:15 PM Classes begin

• Sagar Vijay, Theory of measurement-induced phenomena, 5200/140

Ang Li, Quantum software tools, 5200/219

Sara Sussman, QICK, 5200/214

Alan Tennant, Neutron scattering, 8600/C250 (take shuttle bus at 1:00 PM)

3:15 PM Shuttle bus departs to ORNL Visitor Center

3:45 PM Classes end

4:00 PM Buses depart SNS for Volunteer Hall

5:00 PM Buses arrive at Volunteer Hall

6:30 PM Online summary exam

Friday, July 26, 2024

7:30 AM	Buses depart Volunteer Hall for ORNL Visitor Center
8:30 AM	Buses arrive ORNL Visitor Center
9:00 AM	Keynote presentation
	Dr. Bert de Jong, Lawrence Berkeley National Laboratory
10:15 AM	Closing Ceremony
11:30 PM	Buses depart ORNL Visitor Center for Tyson McGhee airport
12:30 PM	Buses arrive at Tyson McGhee airport