

R-Matrix School 2025

June 2–6, 2025, Oak Ridge National Laboratory

Final Agenda

Event Contacts	Marco Pigni, (865) 576-3357 (office); pignimt@ornl.gov Jordon Hardy, (865) 341-4257 (office) hardyjr@ornl.gov Molly Setzer, (865) 549-0499 (mobile); (865) 574-5288 (office); smithmk1@ornl.gov			
Day 1				
Monday, June 2, 2025				
Time	Event	Lead	Attendees	Location
08:30–09:15 AM	Badging and Check-In	Marco Pigni, Molly Setzer, ORNL	All	ORNL Visitor Center
	Coffee Available			Bldg. 5700, Rm. B304/306
Introductions				
09:15–09:30 Am	Safety and Logistics Briefing	Marco Pigni, ORNL	All	Bldg. 5700, Rm. B304/306
09:30–09:45 AM	Welcome and Introduction	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306
09:45–10:00 AM	Attendee Introductions		All	Bldg. 5700, Rm. B304/306
Lectures				
10:00–11:00 AM	Introduction to R-Matrix Theory	Marco Pigni, ORNL	All	Bldg. 5700, Rm. B304/306
11:00–12:00 PM	R-Matrix Methods and Applications	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306

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Day 1				
Monday, June 2, 2025				
Time	Event	Lead	Attendees	Location
12:00–01:30 PM	Lunch Break, On your own		All	Bldg. 5200 (Cafeteria)
01:30–02:30 PM	Experimental Techniques (I)	James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306
02:30–03:30 PM	Nuclear Data in Practical Applications	Luiz Leal, ORNL	All	Bldg. 5700, Rm. B304/306
03:30–03:45 PM	Break		All	Bldg. 5700, Rm. B304/306
03:45–04:45 PM	Introduction to Thermal Scattering Evaluations	Iyad Al-Qasir, ORNL	All	Bldg. 5700, Rm. B304/306
04:45–05:15 PM	Summary Day-1 and Adjourn	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306

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Day 2

Tuesday, June 3, 2025

Time	Event	Lead	Attendees	Location
Lectures				
08:30–09:00 AM	Coffee Available		All	Bldg. 5700, Rm. B304/306
09:00–10:00 AM	Evaluation Procedures	Marco Pigni, ORNL; James DeBoer, Notre Dame	All	Bldg. 5700, Rm. B304/306
10:00–11:00 AM	Experimental Techniques (II)	James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306
11:00–11:30 AM	Group Photo	Jordon Hardy, ORNL	All	Bldg. 5200 (Cafeteria)
11:30–12:30 PM	Lunch break, On your own		All	Bldg. 5200 (Cafeteria)
12:30–1:30 PM	Nuclear Data Pipeline and Processing	Marco Pigni, Dorothea Wiarda, ORNL	All	Bldg. 5700, Rm. B304/306
01:30–02:30 PM	Advanced R-Matrix Formalism	Goran Arbanas, ORNL	All	Bldg. 5700, Rm. B304/306
02:30–02:45 PM	Break		All	Bldg. 5700, Rm. B304/306
02:45–03:45 PM	Nitrogen Evaluation	Jordan McDonnell, ORNL	All	Bldg. 5700, Rm. B304/306
03:45–04:30 PM	PLEIADES and SAMMY Implementation	Alex Long, LANL	All	Bldg. 5700, Rm. B304/306

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Day 2**Tuesday, June 3, 2025**

Time	Event	Lead	Attendees	Location
04:30–05:00 PM	Summary Day-2 and Adjourn	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306

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SAMMY and AZURE2 Day 3				
Time	Event	Lead	Attendees	Place
Wednesday, June 4, 2025				
R-Matrix Codes Tutorials				
08:30–09:00 AM	Coffee Available		All	Bldg. 5700, Rm. B304/306
09:00–10:30 AM	SAMMY Overview	Dorothea Wiarda, Marco Pigni, ORNL	All	Bldg. 5700, Rm. B304/306
10:30–12:00 PM	AZURE2 Overview	James DeBoer, Notre Dame	All	Bldg. 5700, Rm. B304/306
12:00–01:00 PM	Lunch Break, On your own		All	Bldg. 5200 (Cafeteria)
01:00–02:30 PM	SAMMY/AZURE2 Tutorials	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306
02:30–02:45 PM	Break		All	Bldg. 5700, Rm. B304/306
02:45–04:30 PM	SAMMY/AZURE2 Tutorials	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306

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SAMMY and AZURE2 Day 3

Time	Event	Lead	Attendees	Place
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Wednesday, June 4, 2025

04:30–05:00 PM

Summary Day-3 and Adjourn

Marco Pigni,
Dorothea
Wiarda, ORNL;
James DeBoer,
Notre Dame;
Carl Brune,
Ohio University

All

Bldg. 5700, Rm. B304/306

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SAMMY and AZURE2 Day 4				
Thursday, June 5, 2025				
R-Matrix Codes Tutorials				
Time	Event	Lead	Attendees	Location
08:30–09:00 AM	Coffee Available		All	Bldg. 5700, Rm. B304/306
09:00–12:00 PM	SAMMY/AZURE2 Tutorials	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306
12:00–01:00 PM	Lunch Break, On your own		All	Bldg. 5200 (Cafeteria)
01:00–02:30 PM	SAMMY/AZURE2 Tutorials	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306
02:30–02:45 PM	Break		All	Bldg. 5700, Rm. B304/306
02:45–04:30 PM	SAMMY/AZURE2 Tutorials	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306

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SAMMY and AZURE2 Day 4**Thursday, June 5, 2025****R-Matrix Codes Tutorials**

Time	Event	Lead	Attendees	Location
04:30–05:00 PM	Summary Day-4 and Adjourn	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306

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SAMMY and AZURE2 Day 5				
Friday, June 6, 2025				
R-Matrix Codes Tutorials				
Time	Event	Lead	Attendees	Location
08:30–09:00 AM	Coffee Available		All	Bldg. 5700, Rm. B304/306
09:00–12:00 PM	SAMMY/AZURE2 Tutorials	Marco Pigni, Dorothea Wiarda, ORNL; James DeBoer, Notre Dame; Carl Brune, Ohio University	All	Bldg. 5700, Rm. B304/306
12:00–01:00 PM	Lunch Break, On your own		All	Bldg. 5200 (Cafeteria)
Tours – Details to be Confirmed				
To be determined	Frontier Supercomputer			
To be detemined	X-10 Graphite Reactor			
04:30–05:00 PM	Closing R-matrix school 2025		All	Bldg. 5700, Rm. B304/306