

R-MATRIX SCHOOL 2025^(*)

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The R-matrix school 2025 was the first of three nuclear data schools on resonance analysis evaluation—including realistic evaluation cases using two publicly available R-matrix codes, SAMMY and AZURE2 (developed and maintained at Oak Ridge National Laboratory and the University of Notre Dame, respectively). Held at Oak Ridge National Laboratory, the 2025 R-matrix school targeted different levels of expertise and diverse needs; sessions included theoretical background and a focus on the pipeline nuclear data work for understanding the impact of the evaluation work on selected applications. Advanced information on the evaluation work including the use of two R-matrix codes, SAMMY and AZURE2 was presented together with technical talks discussing nuclear data topic areas. Moreover, the series is set up such that different topics for in-depth-analysis concepts are offered each year. The topic area of the 2025 R-matrix school was about neutron induced reactions and nuclear data libraries. For detailed information, lectures can be found on the event website [1]. Future R-matrix schools are planned to be held at University of Notre Dame in 2027 and Ohio University in 2029 focusing on different topics.

References

[1] 2025 R-matrix school at Oak Ridge National Laboratory, <https://rmatrixschool2025.ornl.gov/>

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