

Analyzing Small-Angle Scattering Data with Modern Python

ACNS Tutorial
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Many scatterers require either advanced analyses that aren't built into widely available toolsets or software from other fields (e.g., machine learning) that isn't designed for scattering data.

In this tutorial, we will teach participants how to use the Python programming language to analyze their scattering data and develop custom analysis workflows. **This one-day course will be conducted in a hands-on, exercise based approach.** Users will be able to download materials and configure their computers before the tutorial or access tutorial materials in the cloud via Google Colab.

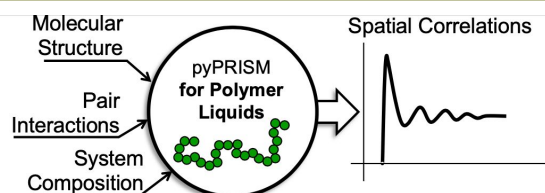


No Python experience required!

We will start from the basics of Python and then continue building upon skills for loading, plotting, and analysis using real-world scattering data.



Examples will demonstrate how several Python libraries, including both general-purpose...



SasView

Bumps Fitting

...and scattering specialized tools, can be incorporated in these custom data approaches.



Extensible Periodic Table

Tutorial cost is included in the conference registration fee.

<https://www.mrs.org/acns-2022>