Workshop On Neutron Scattering Data Analysis 1986 Invited And Contributed Papers From The Workshop

#neutron scattering data analysis #1986 workshop proceedings #invited papers neutron scattering #contributed papers data analysis #scientific data interpretation

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Workshop On Neutron Scattering Data Analysis 1986 Invited And Contributed Papers From The Workshop

Better with Scattering workshop 2020: Introduction to Scattering - Dr. Glen J. Smales - Better with Scattering workshop 2020: Introduction to Scattering - Dr. Glen J. Smales by drheaddamage 5,988 views 3 years ago 43 minutes - Recorded on the first day of the Better with **Scattering workshop**, 2020, Glen Smales introduces the concepts and many of the ...

Disclaimer

Wide Angle Scattering

Diffraction Data

Scattering Vector

Fluorescence

Structure Factor

Structure Factor in Crystallography

Examples of Spherical Form Factors

Size Distribution

Basic SAXS Data Analysis and Validation - Basic SAXS Data Analysis and Validation by BioCAT 2,036 views 6 months ago 1 hour, 17 minutes - One of a series of lectures at the BioCAT Everything BioSAXS 9 **workshop**, in February 2023. This lecture focuses on how to carry ...

yt Workshop - yt Workshop by BLACK HOLE PIRE - Science 144 views 2 years ago 1 hour, 58 minutes - Facilitator: Matthew Turk, University of Illinois Overview: yt is an open-source python package for analyzing and visualizing ...

Introduction to Yt

Fluid Dynamics

Forward Problem

Process of Registration

Home Page of Yt

Isolated Galaxy

Import Yt

Philosophy behind Yt

Jupiter Lab

Straightforward Projection Plot

Maximum Intensity Projection

Color Maps

Selection Operations

Arithmetic Operations

Integration of Density

Annotations

Non-Spatial Visualizations

Region Selector

Add Your Own Derived Field

Yt Add Field

Field Parameters

Spatial Fields

How To Load Arbitrary Data Sets

Load a Uniform Grid

Load Uniform Grid Operator

Volume Renderer

Introduction to Neutron Scattering & Small Angle Neutron Scattering - Introduction to Neutron Scattering & Small Angle Neutron Scattering by LINXS 5,845 views 2 years ago 48 minutes - Title: Introduction to **Neutron Scattering**, & Small Angle **Neutron Scattering**, Speaker: Andrew Jackson, ESS. This talk was part of ...

Intro

Neutrons and Xrays

Nobel Prize in Physics

Interaction with Atoms

Properties of Neutrons

Contrast Variation

Nuclear fission

Nuclear fusion

Spellation

Compact Accelerator Driven Neutron Sources

High Flux Sources

New Neutron Sources

Isos Source

Spectroscopy

What do we measure

Dynamic Light Scattering

Neutron Scattering

Coherent Scattering

Scattering Density

Neutrons vs Xrays

Summary

Small Angle Scattering Data Analysis with SasView - Small Angle Scattering Data Analysis with SasView by LINXS 8,424 views 3 years ago 1 hour, 2 minutes - SasView is an open source, collaboratively developed software for **analysis**, and modeling of small angle **scattering**, (SAS) **data**..

Intro

What is Small Angle Scattering?

What can we learn from SAS experiment?

How SAXS and SANS are related?

What kind of information do we get?

Typical SAS data analysis workflow

Defining model is crucial for data analysis

SasView history

70+ models to explain 1D data

2D analysis can be performed fast

Integration with bumps enables multiple fitting engines

It is easy to add plugin models

But what if we don't know the model

Correlation functions

SasView architecture provides various user interfaces

SasView can be run from python script

Day-to-day issues

What SasView cannot do

Capsid assembly proceeds through two intermediates

Education and outreach

Come to work with us!

Neutrons scattering and instrumentation 1 - Neutrons scattering and instrumentation 1 by HER-CULES school 1,900 views 2 years ago 1 hour, 28 minutes - Neutrons scattering, and instrumentation

1 First part of the Andrew WILDES HERCULES 2020 lecture. The production of this video ...

What is a neutron?

What is neutron scattering?

Neutrons obey Quantum physics

X-ray diffraction

Neutrons vs. X-rays

Neutron diffraction

How to quantify neutron scattering?

Neutron reflectivity

Publishing SAXS Data - Publishing SAXS Data by BioCAT 3,034 views 4 years ago 18 minutes - One of a series of lectures at the BioCAT Everything BioSAXS 5 **workshop**, in November 2019. This lecture focuses on best ...

Introduction

SAXS Data

Publication Guidelines

Summary Tables

Publications

Supplementary Figures

Models

Recommended Tables

Data Collection Parameters

Software Used

Data Validation

Modeling Results

Skipping Pieces

Data Position

Acknowledgements

Final Slide

Introduction to Biological Solution SAXS - Introduction to Biological Solution SAXS by BioCAT 5,964 views 3 years ago 22 minutes - One of a series of lectures at the BioCAT Everything BioSAXS 6 workshop, in October 2020. This lecture introduces small angle ...

Introduction

Xray Diffraction

Electromagnetic Spectrum

Photo Absorption

Compton Scattering

Rayleigh Scattering

Wave Scattering

Neutron Scattering

SAXS Experiment

SAXS in Literature

Example Experiments

Hayden Mertens

Will Thomas

SAXS Experiments

Pseudoatomic Model Building

21. X-ray Diffraction Techniques I (Intro to Solid-State Chemistry) - 21. X-ray Diffraction Techniques I (Intro to Solid-State Chemistry) by MIT OpenCourseWare 59,555 views 3 years ago 50 minutes - Continuing the discussion of x-rays and x-ray **diffraction**, techniques. License: Creative Commons BY-NC-SA More information at ...

Introduction

Periodic Table

Exam Results

Exam 1 Topics

Xravs

Characteristics

Diffraction

Two Theta

Selection Rules

What is X-ray Diffraction? - What is X-ray Diffraction? by Bruker 795,617 views 4 years ago 4 minutes, 8 seconds - #xrd #xraydiffraction #braggslaw.

X-Ray Diffraction Experiment

Story of X-Ray Diffraction

Constructive Interference

Elastic Scattering

Diffraction Angle

Bragg's Law

Analyzing Crystal Structures with X-Ray Diffraction

Part 1: Metabolomics Data Analysis - Part 1: Metabolomics Data Analysis by NCQBCS 2,959 views 7 months ago 56 minutes - Presenter: Jessica Prenni, Colorado State University This **workshop**, was presented by Jessica Prenni on July 12, 2023 at the ...

Crack the Data Scientist Case Interview by an Ex-Google Data Scientist - Crack the Data Scientist Case Interview by an Ex-Google Data Scientist by DataInterview 53,704 views 2 years ago 29 minutes - ===== Details ====== This is a 30-minute guide on how to crack the **data**, scientist case interviews by Dan, a **data**, scientist who ...

Intro

Topics Covered

What Is a Data Science Case Problem?

Example Problems

Response Framework

Evaluation Process

Preparation Strategy

Interactive Exercise

Introduction to X-ray Diffraction - Introduction to X-ray Diffraction by IAMM Diffraction Facility 88,942 views 4 years ago 24 minutes - This video will briefly introduce the relationship between atomic planes and X-ray **diffraction**,. It will then go into the types of X-ray ...

Intro

Liquid

Distance Between Planes

Why These Planes Matter

Polycrystalline Powders or Solid Pieces

Peak Breadth Analysis - Crystallite Size/Microstrain

Semi-crystalline Powders or Solid Pieces Degree of Crystallinity

Non-ambient X-ray Diffraction

High-temperature Kinetic Study

Ion-irradiated Materials & Polycrystalline Thin Films Grazing Incidence X-ray Diffraction

Thin Films X-ray Reflectivity (XRR)

Random Orientation

Preferred Orientation

Pole Figure Measurement

Pole Figures - Epitaxial Thin Film

Laue - Crystal Orientation and Cutting

Introduction to Dynamic Light Scattering Analysis - Introduction to Dynamic Light Scattering Analysis by Malvern Panalytical 175,000 views 4 years ago 5 minutes, 44 seconds - Dynamic Light **Scattering**, (DLS) is a technique classically used for measuring the size of particles typically in the sub-micron ... Hydrodynamic Size

Measure Diffusion Rates Using DIs

Autocorrelation

Calculate the Particles Hydrodynamic Size

MetaboAnalyst 5.0 - LC MS Spectral Analysis (Part1) - MetaboAnalyst 5.0 - LC MS Spectral Analysis (Part1) by MetaboAnalyst 6,609 views 3 years ago 5 minutes, 9 seconds - This video tutorial shows a demo of performing raw spectral **analysis**, in MetaboAnalyst.

WhatIDo and Small-angle X-ray scattering explanation - WhatIDo and Small-angle X-ray scattering explanation by drheaddamage 34,316 views 13 years ago 4 minutes, 55 seconds - This is what I do now. There is also an explanation of how small-angle **scattering**, works starting from 1:10 (or 0:56 for a little ...

SAXS data analysis with PRIMUS - SAXS data analysis with PRIMUS by BIOSAXS GmbH 3,304 views 2 years ago 16 minutes - SAXS **data**, processing and **analysis**, from SEC frames to flexible refinement 00:00 From SAXS **data**, to model 01:58 ATSAS ...

From SAXS data to model

ATSAS package

CHROMIXS: process SEC-SAXS data

PRIMUS: interactive primary data processing

Guinier analysis

Pair distance distribution function p(r)

DAMMIF/DAMMIN parameters

CRYSOL options

Comparing a PDB model with the ab initio reconstruction in PyMOL with SASpy

SREFLEX NMA refinement

Curve Fitting with CFTOOL - MATLAB for Non-Believers - Curve Fitting with CFTOOL - MATLAB for Non-Believers by purdueMET 46,396 views 3 years ago 8 minutes, 28 seconds - CFTOOL is a handy interactive curve fitting tool in MATLAB - akin to 'Add Trendline' in Excel, but more powerful. Check out the ...

Better with Scattering workshop 2020: Everything and the kitchen sink - Better with Scattering workshop 2020: Everything and the kitchen sink by drheaddamage 395 views 3 years ago 32 minutes - Recorded at the Better with **Scattering workshop**, 2020, this talk highlights the complete set of **data**, correction steps that we do for ...

Introduction

Scattering methodology

Data Corrections

Demo

Requirements

Methodology

Results

Future plans

2021 SIBYLS BioSAXS workshop: Intro to Small Angle X-ray Scattering (SAXS) - 2021 SIBYLS BioSAXS workshop: Intro to Small Angle X-ray Scattering (SAXS) by SIBYLS SAXS Beamline 164 views 2 years ago 7 minutes, 51 seconds - Greg Hura, SIBYLS beamline scientist, gives a short introduction to the basics of Small Angle X-ray **Scattering**, (SAXS).

Crystal Structure

Scattering Situations

SAS Basics

Metabolomic Data Analysis using MetaboAnalyst - Metabolomic Data Analysis using MetaboAnalyst by Bioinformatics DotCa 49,439 views 6 years ago 1 hour, 35 minutes - For tutorials and lecture slides for this **workshop**,, please visit bioinformaticsdotca.github.io. How it Begins by Kevin MacLeod is ... Module 5 Metabolomic Data Analysis Using MetaboAnalyst

Learning Objectives

A Typical Metabolomics Experiment

2 Routes to Metabolomics

Metabolomics Data Workflow

Data Integrity/Quality

Data/Spectral Alignment

Binning (3000 pts to 14 bins)

Data Normalization/Scaling

Data QC, Outlier Removal & Data Reduction

MetaboAnalyst Modules

Example Datasets

Select a Module (Statistical Analysis)

Common Tasks

Data Upload

Data Set Selected

Data Integrity Check

Normalization Result

Next Steps

Quality Control

Visual Inspection

Outlier Removal (Data Editor)

Noise Reduction (Data Filtering)

ANOVA

View Individual Compounds

Overall Correlation Pattern

High Resolution Image

What's Next?

Pattern Matching (cont.)

Multivariate Analysis

PCA Scores Plot

PCA Loading Plot

3D Score Plot

PLS-DA Score Plot

Important Compounds

Model Validation

Analog Computational Methods Workshop: Peter Littlewood Panel Discussion - Analog Computational Methods Workshop: Peter Littlewood Panel Discussion by Pittsburgh Quantum Institute 802 views 3 years ago 41 minutes - Dr. Littlewood leads a discussion on realistic expectations for polariton and atom lattices. This took place on Aug. 18th, 2020 at the ...

Intro

Quantum Computers

Hybrid Platforms

dynamical systems

Chromatid systems

Energy minimization

Allergies

Neural Networks

Polarity on Lattice

Polarity Lattice

Optimization

Longrange interactions

Rewriting longrange interactions

Questions

Comments

How could nature have looked like

Comment

Polariton

Dynamics

PyRS: Data Processing Software for Engineering Neutron Diffraction |SciPy 2020| Zhou - PyRS: Data Processing Software for Engineering Neutron Diffraction |SciPy 2020| Zhou by Enthought 514 views 3 years ago 22 minutes - The High Intensity Diffractometer for Residual stress **Analysis**, (HiDRA) engineering **neutron**, diffractometer at the Hight Flux ...

Introduction

Neutron Scattering

Interest

Data Reduction Workflow

Userfriendly

Project Management

Code Development

Data Structure

Data Reduction

Conversion Pattern

Pixel Positions

Pie Pie

Reduction Interface

Peak Fitting

Conclusion

Seminar: Advanced Thermal Reactors and Thermal Neutron Scattering Data Validation - Seminar: Advanced Thermal Reactors and Thermal Neutron Scattering Data Validation by NC State Nuclear 181 views Streamed 4 years ago 53 minutes - Dr. Ayman I. Hawari Distinguished Professor, Nuclear Engineering Director, Nuclear Reactor Program Department of Nuclear ...

Low Energy Interaction Physics

Acknowledgments

Funding

Proteus Benchmark Model of a Graphite Reactor

Slowing Down Spectrometer

Potential Scattering Region

Theory of Thermal Neutron Scattering

Graphite

The Porous Graphite Model for Nuclear Graphite

Time Signature the Energy Signals

Q-Factor

The Old Reactor Bay

Analysis I Model free and model based fitting - Analysis I Model free and model based fitting by LINXS 271 views 2 years ago 57 minutes - Title: **Analysis**, I Model free and model based fitting Speaker: Adrian Sanchez-Fernandez, Lund University. This talk was part of the ...

Intro

What is the purpose?

What is the question?

The scattering vector

Scattering length density

Data analysis hierarchy

Fitting algorithm and Chi-squared test

Resolution function

Model-free fitting

Scattering invariant

Porod exponent

Guinier plot

Kratky plot

Periodic structures

Empirical models

Correlation length model

Model-based fitting

Form and structure factor

Form factor

Structure factor and concentration

2D fitting

Fitting strategy

Summary

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