

Chemical Spectroscopy and Spin Echo Overview

Timmy Ramirez-Cuesta

Chemical Spectroscopy Team

Neutron Scattering Division

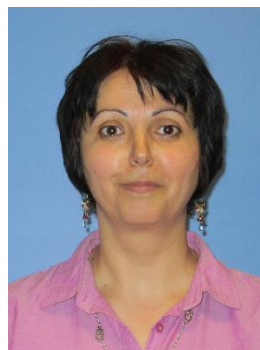
ORNL is managed by UT-Battelle, LLC for the US Department of Energy

The Chemical Spectroscopy and Spin Echo, people

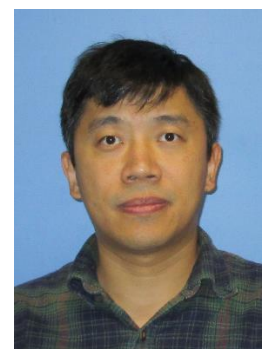
BASIS



SPIN ECHO



VISION



The Chemical Spectroscopy and Spin Echo, people



New staff



Anup
Pandey
Postdoc
VISION
2017-2019
Los
Alamos



Margarita
Fomina
Postdoc
BASIS
2017-2020



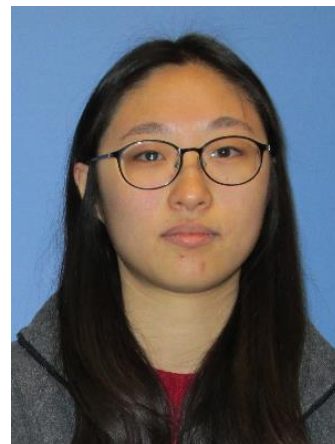
Jan-Patrik
Melchior
BASIS
2017-2019
AUDI



Jiayong
Zhang
ORNL-NCSU
BNL



James
Kammert
LDRD postdoc
2019
Smart
Instrumentation



Jisue Moon
Joint Postdoc
NSD &
CSD
2018-2020
ORNL



Matthew
Ryder
Shull
Fellow
2018-



Murillo
Martins
Postdoc
BASIS
Early 2019



Rafael
Balderas
Postdoc
FCTO
Hydrogen
Storage
Started March
2020



Eric Novak
SA
VISION
Started
March 2020

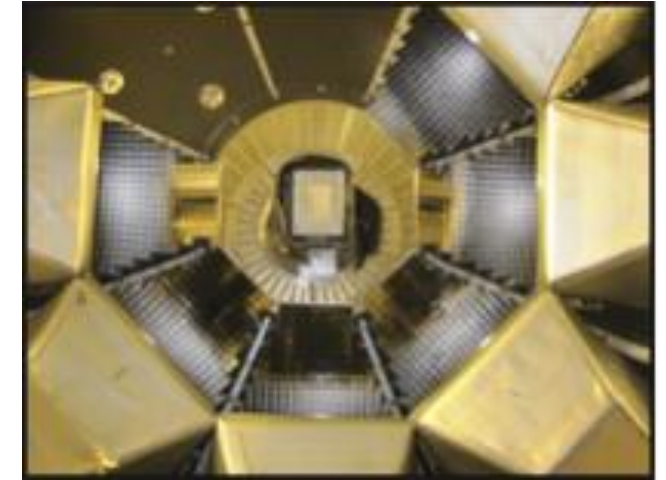
The Chemical Spectroscopy and Spin Echo, Instruments



BASIS



SPIN ECHO



VISION

Chemical Spectroscopy performance

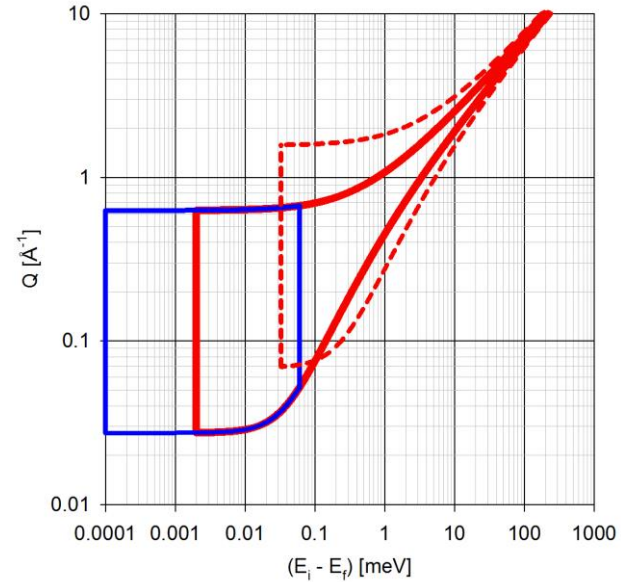
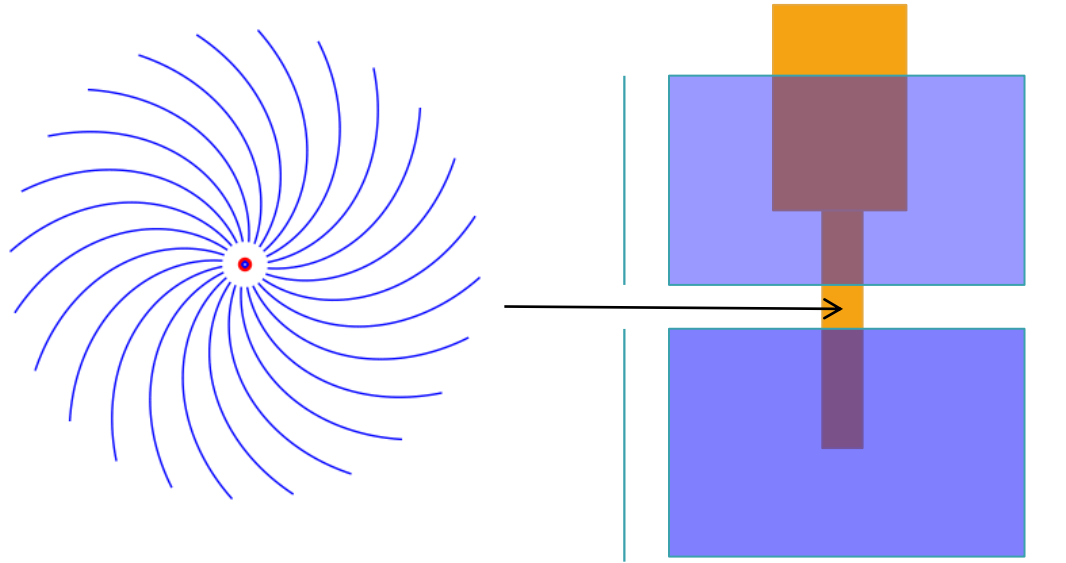
- SNS Chemical Spectroscopy suite (PUSH 2018 – Aug 2020)

Instrument	Publications	Pubs with IF > 7	PhD dissertations
BL-2 (BASIS)	59	13 (22%)	6
BL-15 (NSE)	21	3 (14%)	0
BL-16B (VISION)	58	26 (45%)	9

- ISIS Molecular Spectroscopy suite (ePub 2018 - 2020)

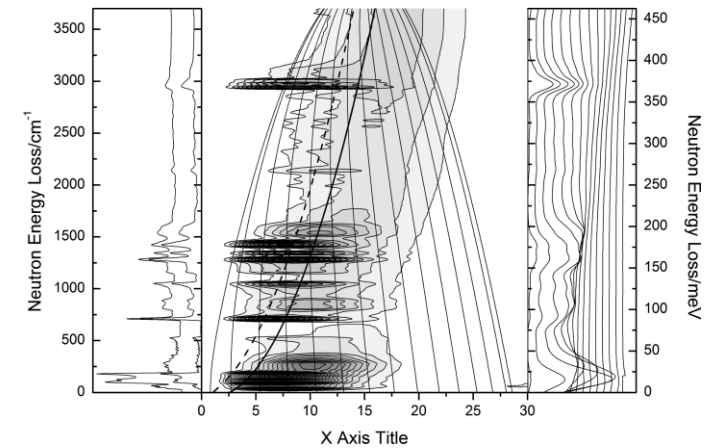
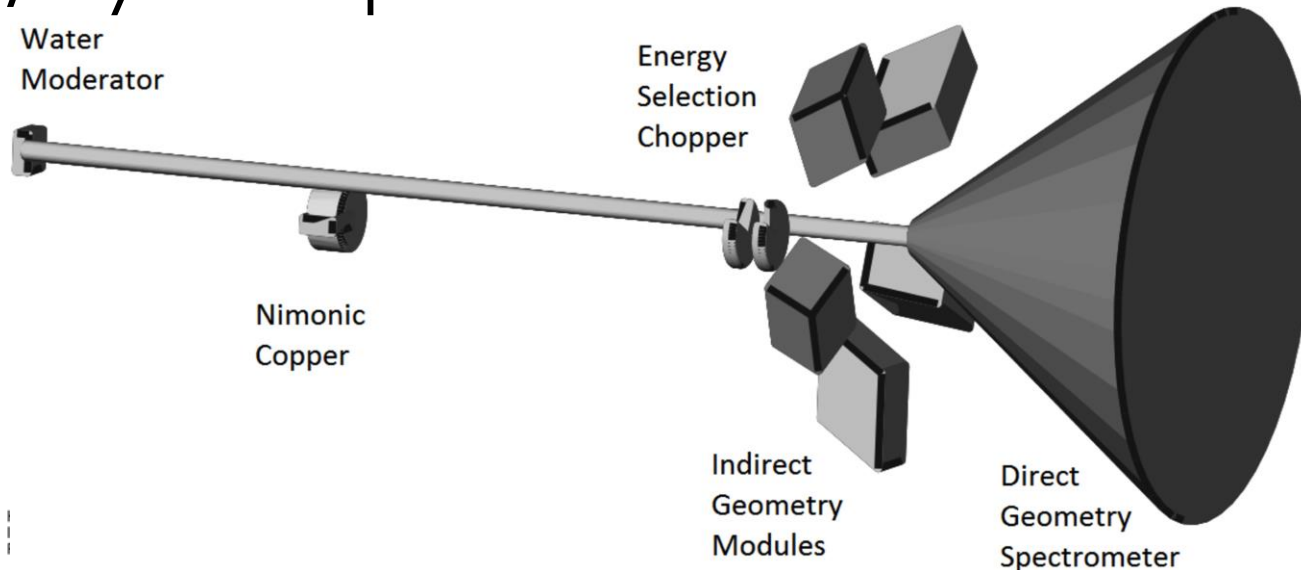
Instrument	Publications	Pubs with IF > 7	PhD dissertations
IRIS	45	6 (13%)	4
OSIRIS	51	6 (12%)	1
TOSCA	129	13 (10%)	9

BWAVES (Wide Angle Velocity Selector Spectrometer)



Variable resolution
Trade-off
resolution
and flux

Janus/Hybrid spectrometer



Instrument presentations

