

# Monday, May 23rd

8:00 – 8:45	<b>Registration and Coffee</b>	Blocker first floor
8:45 – 9:10	<b>Opening remarks</b>	Mitchell Auditorium
9:10 – 10:00	Gunther Uhlmann <i>Quantum and acoustic cloaking</i>	Mitchell Auditorium
10:00 – 11:10	<b>Poster Session, Coffee</b>	Blocker, second floor and Room 148
11:10 – 12:00	Peter Hall <i>Isotonic Nonparametric regression in the presence of measurement error</i>	Mitchell Auditorium

12:00 – 1:30

## Lunch

1:30 – 3:30

## Minisymposia

Invisibility and cloaking

Room 166

Matti Lassas  
Daniel Onofrei  
Kui Ren  
Ting Zhou

Parameter choice for Tikhonov regularization

Room 169

Stefan Kindermann  
Tomoya Takeuchi  
Ewout van den Berg  
Uno Hämarik

Shape reconstruction in impedance tomography and inverse scattering

Room 149

Jeremi Darde  
Bastian Harrach  
Masaru Ikehata  
Armin Lechleiter

Inverse obstacle scattering: Theory and numerical methods

Room 150

Roland Potthast  
Olha Ivanyshyn  
Xudong Chen  
Hyeonbae Kang

Non-smooth methods for inverse problems in biomedical imaging

Room 113

Theodore Alexandrov  
Kristian Bredies  
Matthias Gehre  
Antoine Laurain

Sparsity enhanced solutions to inverse and ill-posed problems

Room 117

Martin Benning  
Ignace Loris  
Marta Betcke  
Matti Lassas

3:30 – 4:00

## Coffee

Blocker second floor

4:00 – 6:00

## Minisymposia

Advances in qualitative methods in inverse scattering

Room 166

Laurent Bourgeois  
Bojan Guzina  
Marc Bonnet  
Drossos Gintedes

Banach space regularization and conditional stability

Room 169

Jin Cheng  
Markus Grasmair  
Bangti Jin  
Jijun Liu

Recent advances in the regularization of inverse problems

Room 149

Frank Schöpfer  
Christian Clason  
Antonio Leitao  
Taufiqar Khan

New developments on inverse problems and statistics

Room 150

Jiguo Cao  
Xiaohong Chen  
Yanyuan Ma  
Siva Tian

Recent developments of reconstruction methods for inverse medium problems

Room 113

Junshan Lin  
Gaik Ambartsoumian  
Songming Hou  
Malena Español

## Tuesday, May 24th

9:00 – 9:50	Gang Bao <i>Inverse scattering via multiple frequency boundary measurements</i>	Mitchell Auditorium
9:50 – 10:40	Elisa Francini <i>Detection of thin inclusions in linear elasticity</i>	Mitchell Auditorium
10:40 – 11:10	<b>Coffee</b>	Blocker second floor
11:10 – 12:00	Lassi Päivärinta <i>Transmission eigenvalues for elliptic PDE's</i>	Mitchell Auditorium

12:00 – 1:30 **Lunch**

1:30 – 3:30 **Minisymposia**

Invisibility and cloaking  
Room 166  
Andrea Alu  
Xudong Chen  
Fernando G. Vasquez

Wave propagation and imaging in heterogeneous media  
Room 169  
Liliana Borcea  
John Schotland  
Richard Tsai  
Ricardo Alonso

Hybrid methods in biomedical imaging  
Room 149  
Ben Cox  
Peter Burgholzer  
Armando Manduca

Shape reconstruction in impedance tomography and inverse scattering  
Room 150  
Peter Monk  
John Sylvester  
Marcel Ullrich  
Ting Zhou

Recent developments of reconstruction methods for inverse medium problems  
Room 113  
Peijun Li  
Taufiqar Khan  
Jun Zou  
Mandar Kulkarni

Statistical perspectives on inverse problems  
Room 117  
Jim Ramsey  
Hulin Wu  
Jianhua Huang  
Yalchin Efendiev

3:30 – 4:00 **Coffee** Blocker second floor

4:00 – 6:00 **Minisymposia**

Geometric methods in inverse problems  
Room 166  
Leo Tzou  
Lauri Oksanen  
Pilar Herreros  
Plamen Stefanov

Model reduction and applications to inverse problems  
Room 169  
Fernando G. Vasquez  
Vladimir Druskin  
Mikhail Zaslavsky  
Thomas Hagstrom

Biomechanical imaging in tissue  
Room 149  
Richard Ehman  
Mark Palmeri  
Joyce McLaughlin  
Gen Nakamura

Inverse obstacle scattering: Theory and numerical methods  
Room 150  
Bo Zhang  
Jiguang Sun  
Hai Zhang  
Yongzhi Steve Xu

Inverse source problems and application  
Room 113  
Michael Andrie  
Guillaume Bal  
Victor Isakov  
Takkaki Nara

## Wednesday, May 25th

8:30 – 10:55	<b>Special Sessions S1--S7</b>	Mitchell Auditorium
10:55 – 11:10	<b>Coffee</b>	Blocker second floor
11:10 – 12:00	<b>Calderon Prize</b>	Mitchell Auditorium
12:00 – 1:30	<b>Lunch</b>	
1:30 – 3:30	<b>Minisymposia</b>	

### Inverse problems in astronomy

Room 166

Brent Ellerbroek  
Andreas Neubauer  
Simone Esposito  
Clementine Bechet

### Model reduction and applications to inverse problems

Room 169

Alexander Mamonov  
Shari Moskow  
Elena Cherkhaev  
Yalchin Efendiev

### Hybrid methods in biomedical imaging

Room 149

Guillaume Bal  
Eric Bonnetier  
Plamen Stefanov  
Linh Nguyen

### Identification of distributed parameters: Stability and numerics

Room 150

Eric T.S. Chung  
Bernd Hofmann  
Ville Kolehmainen  
Michael Klibanov

### New applications of inverse scattering theory

Room 113

Roland Potthast  
Xiaodong Liu  
Daniel Onofrei  
Xiaosheng Li

### Asymptotical methods in imaging

Room 117

Josselin Garnier  
Hyeondae Lee  
Mikyoun Lim  
Elena Beretta

3:30 – 4:00 **Coffee** Blocker second floor

4:00 – 6:00 **Minisymposia**

### Inverse spectral problems

Room 166

Steve Zelditch  
Yaroslav Vorobets  
Ruth Gornet  
Hamid Hezari

### Parameter choice for Tikhonov regularization

Room 169

Michael Hintermüller  
Rosemary Renaut  
Christian Clason  
Shuai Lu

### Recent advances in the regularization of inverse problems

Room 149

Cara Brooks  
Stefan Anzengruber  
Annamaria Barbagallo  
Marcus Haltmeier

### Large scale computational inverse problems

Room 150

Martin Benning  
Youssef Marzouk  
Herbert Egger  
Thorsten Hohage

### Shape optimization for inverse problems

Room 113

Antonio Leitao  
Benedikt Wirth  
Wolfgang Ring  
Esther Klann



## Thursday, May 26th

9:00 – 9:50	Alison Malcolm <i>Seismic inversion with multiply-scattered waves</i>	Mitchell Auditorium
9:50 – 10:40	Maher Moakher <i>A Slepian framework for an inverse problem in physical geodesy</i>	Mitchell Auditorium
10:40 – 11:10	<b>Coffee</b>	Blocker second floor
11:10 – 12:00	Andreas Kirsch <i>The factorization method for inverse problems</i>	Mitchell Auditorium

12:00 – 1:30 **Lunch**

1:30 – 3:30 **Minisymposia**

Inverse problems in astronomy  
  
Room 166 Ronny Ramlau  
Curtis Vogel  
Francois-Xavier Dupe  
Francisco Shu Kitaura

Wave propagation and imaging and heterogeneous media  
  
Room 169 Fioralba Cakoni  
Lexing Ying  
Thomas Callaghan  
Rami Nammour

Inverse problems for partial differential equations  
  
Room 149 Luther White  
Kurt M. Bryan  
Herb Kunze  
Assad Oberai

Large scale computational inverse problems  
  
Room 150 George Biros  
John Schotland  
Christoph Schwarzbach  
Georg Stadler

Banach space regularization and conditional stability  
  
Room 113 Shuai Lu  
Stefan Kindermann  
Kamil Kazimierski  
Torsten Hein

3:30 – 4:00 **Coffee** Blocker second floor

4:00 – 6:00 **Minisymposia**

Inverse problems in medical modeling  
  
Room 166 Chiara Dalla Man  
Valeriya Naumova  
Nathan Gibson  
Ryan A. Hass

Model reduction and uncertainties in diffuse tomography problems  
  
Room 169 Nuutti Hyvönen  
Ting Wei  
Tanja Tarvainen  
Ville Kolehmainen

Inverse problems for partial differential equations  
  
Room 149 Paul Barbone  
Ian Knowles  
Fabio Raciti  
Akhtar A. Khan

Identification of distributed parameters: Stability and numerics  
  
Room 150 Peijun Li  
Kui Ren  
Jianzhong Su  
Faouzi Triki

Advances in qualitative methods in inverse scattering  
  
Room 113 Michele Piana  
Roland Griesmaier  
Mourad Sini  
Anne Cossoniere

## Friday, May 27th

9:00 – 9:50	Simon Arridge <i>Inverse problems in optical tomography</i>	Mitchell Auditorium
9:50 – 10:40	Hyeonbae Kang <i>Size estimation by boundary measurements-translation methods</i>	Mitchell Auditorium
10:40 – 11:10	<b>Coffee</b>	Blocker second floor
11:10 – 12:00	Peter Kuchment <i>Hybrid methods of medical imaging</i>	Mitchell Auditorium