

# Recent Advances and New Directions in the Interplay of Noncommutative Algebra and Geometry

June 20-24, 2022

Alder Hall Auditorium<sup>1</sup>, University of Washington

A Conference in Honor of S. Paul Smith on the occasion of his 65th Birthday

( [register](#); [location map](#); [room description](#) )

## Monday June 20, 2022

**9:10-10:00 am**

[Tensor Triangular Geometry in Representation Theory](#)

Julia Pevtsova, University of Washington

**10:00-10:30 am** break

**10:30-10:55 am**

[Belavin-Drinfeld Quantum Groups](#)

Timothy Hodges, University of Cincinnati

**11:10-Noon**

[Artin-Schelter Regular Algebras](#)

Dan Rogalski, UC San Diego

**Noon-2:00 pm** lunch break

**2:00-2:50 pm**

[The Invariant Theory of Artin-Schelter Regular Algebras](#)

Ellen Kirkman, Wake Forest University

**3:00-3:25 pm**

[Dual Reflection Groups](#)

W. Frank Moore, Wake Forest University

**3:35-4:00 pm**

[A Certain 4-dimensional Artin-Schelter Regular Algebra from Non-commutative Invariant Theory](#)

Peter Goetz, Cal Poly Humboldt

**4:00-5:40 pm**

Poster Session

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1 Speakers should assume there is **no whiteboard/chalkboard** in the lecture room; i.e., talk should be prepared for use with an overhead projector and computer. Preferably, speakers should bring their own laptop, as the room is not provided with a computer.

## Tuesday June 21, 2022

**9:00-9:25 am**

[Quantizing the Maximal Spectrum](#)

Manuel Reyes, UC Irvine

**9:35-9:45 am** 10-minute talk

**9:45-9:55 am** 10-minute talk

**9:55-10:30 am** break

**10:30-10:40 am** 10-minute talk

**10:40-10:50 am** 10-minute talk

**11:10-Noon**

[Drinfeld Hecke Algebras and Group-Twisted Alexander-Whitney and Eilenberg-Zilber Maps](#)

Anne V. Shepler, University of North Texas

**Noon-2:00 pm** lunch break

**2:00-2:50 pm**

[Support Varieties for Finite Tensor Categories](#)

Sarah Witherspoon, Texas A&M University

**3:00-3:10 pm** 10-minute talk

**3:10-3:20 pm** 10-minute talk

**3:20-3:35 pm** break

**3:35-3:45 pm** 10-minute talk

**3:45-3:55 pm** 10-minute talk

**4:10-5:00 pm**

[Recent Results about the Dixmier-Moeglin Equivalence](#)

Jason P. Bell, University of Waterloo

**6:00-7:00 pm**

Conference pre-dinner drinks and cocktails

(registration required using [conference registration form](#) – thank you!)

**7:00-9:00 pm**

Conference dinner

(registration required using [conference registration form](#) – thank you!)

## Wednesday June 22, 2022

**9:00-9:50 am**

[Invariant Holonomic Systems for Symmetric Spaces](#)

J. Toby Stafford, University of Manchester

**10:00 am**

Conference photograph in Alder Auditorium

**10:10-10:30 am** break

**10:30-10:55 am**

[Parabolic Adjoint Action, Weierstrass Sections and Components of the Nilfibre in Type A](#)

Yasmine Fittouhi, University of Haifa

**11:10-Noon**

[On the Geometry of Algebras Related to the Weyl Groupoid](#)

Ian M. Musson, University of Wisconsin Milwaukee

**Noon-2:00 pm** lunch break

No events are scheduled for Wednesday afternoon.

## Thursday June 23, 2022

**9:00-9:50 am**

[Spectra of Quantum Algebras](#)

Ken Goodearl, UC Santa Barbara

**9:50-10:30 am** break

**10:30-10:55 am**

[Twists of Algebras and 2-cocycle Twists of Certain Hopf Algebras](#)

Padmini Veerapen, Tennessee Technological University

**11:10-Noon**

[Enveloping Algebras of Infinite-dimensional Lie Algebras: a survey](#)

Sue Sierra, University of Edinburgh

**Noon-2:00 pm** lunch break

**2:00-2:50 pm**

[Maps to Noncommutative Projective Spaces](#)

Adam Nyman, Western Washington University

**2:50-4:10 pm** break

**4:10-5:00 pm**

Career Forum with panel

Moderator: Dan Rogalski

## Friday June 24, 2022

**9:00-9:50 am**

[Local Forms of Noncommutative Functions](#)

Michael Wemyss, University of Glasgow

**9:50-10:30 am** break

**10:30-10:55 am**

[Quivers and Superpotentials for Semisimple Hopf Actions](#)

Simon Crawford, University of Manchester

**11:10-Noon**

[On the Spectrum and Support Theory of a Finite Tensor Category](#)

Milen Yakimov, Northeastern University

**Noon-2:00 pm** lunch break

**2:00-2:25 pm**

[Twists of Graded Poisson Algebras and Applications](#)

Xingting Wang, Howard University

**2:40-3:30 pm**

[Curved Deformations and Higher Operations](#)

Raf Bocklandt, University of Amsterdam

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Useful links:

- primary conference [website](#)
- secondary conference [website](#)
- [registration form](#) (submission needed for attending the dinner by all guests)
- [location map](#)
- [room description](#)