# Winter School on New Applications of Mixed Hodge Modules: January 15-26, 2024

## Events for:
## Monday, January 15th - Friday, January 19th

### Monday, January 15th

9:30am **Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

11:00am **Workshop: Talk - Christian Schnell - SCGP 102**

**Speaker:** Christian Schnell

**Title:** Hodge theory and Lagrangian fibrations I

12:00pm **Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

2:30pm **Workshop: Talk - Dougal Davis - SCGP 102**

**Speaker:** Dougal Davis

**Title:** Mixed Hodge modules and representation theory I

### Tuesday, January 16th

9:00am **Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

9:30am **Workshop: Talk - Christian Schnell - SCGP 102**

**Speaker:** Christian Schnell

**Title:** Hodge theory and Lagrangian fibrations II

10:30am **Workshop: Coffee Break - SCGP Cafe**

**Title:** Coffee Break

11:00am **Workshop: Talk - Robert Friedman - SCGP 102**

**Speaker:** Robert Friedman

**Title:** Higher rational singularities and deformation theory I

12:00pm **Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

2:30pm **Workshop: Talk - Dougal Davis - SCGP 102**

**Speaker:** Dougal Davis

**Title:** Mixed Hodge modules and representation theory II

3:30pm **Workshop: Tea Time - SCGP Cafe**

**Title:** Tea Time

4:00pm **Workshop: Talk - Bradley Dirks - SCGP 102**

**Speaker:** Bradley Dirks

**Title:** V-filtration and Hodge filtration in higher codimension

## Wednesday, January 17th

9:00am **Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

9:30am **Workshop: Talk - Dougal Davis - SCGP 102**

**Speaker:** Dougal Davis

**Title:** Mixed Hodge modules and representation theory III

10:30am **Workshop: Coffee Break - SCGP Cafe**

**Title:** Coffee Break

11:00am **Workshop: Talk - Christian Schnell - SCGP 102**

**Speaker:** Christian Schnell

**Title:** Hodge theory and Lagrangian fibrations III

12:00pm **Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

2:30pm **Workshop: Talk - Mihnea Popa - SCGP 102**

**Speaker:** Mihnea Popa

**Title:** The Du Bois complex I

3:30pm **Workshop: Tea Time - SCGP Cafe**

**Title:** Tea Time

6:00pm **Workshop: Banquet Dinner - SCGP Cafe**

**Title:** Banquet Dinner

## Thursday, January 18th

9:00am **Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

9:30am **Workshop: Talk - Robert Friedman - SCGP 102**

**Speaker:** Robert Friedman

**Title:** Higher rational singularities and deformation theory II

10:30am **Workshop: Coffee Break - SCGP Cafe**

**Title:** Coffee Break

11:00am **Workshop: Talk - Dougal Davis - SCGP 102**

**Speaker:** Dougal Davis

**Title:** Mixed Hodge modules and representation theory IV

12:00pm **Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

2:30pm **Workshop: Talk - Christian Schnell - SCGP 102**

**Speaker:** Christian Schnell

**Title:** Hodge theory and Lagrangian fibrations IV

3:30pm **Workshop: Tea Time - SCGP Cafe**

**Title:** Tea Time

4:00pm **Workshop: Talk - Mihnea Popa - SCGP 102**

**Speaker:** Mihnea Popa

**Title:** The Du Bois complex II

## Friday, January 19th

8:30am **Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

9:30am **Workshop: Talk - Dougal Davis - SCGP 102**

**Speaker:** Dougal Davis

**Title:** Mixed Hodge modules and representation theory V

10:30am **Workshop: Coffee Break - SCGP Cafe**

**Title:** Coffee Break

11:00am **Workshop: Talk - Christian Schnell - SCGP 102**

**Speaker:** Christian Schnell

**Title:** Hodge theory and Lagrangian fibrations V

12:00pm **Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

2:30pm **Workshop: Talk - Hyunsuk Kim - SCGP 102**

**Speaker:** Hyunsuk Kim

**Title:** L2 methods and Saito's vanishing theorem

3:30pm **Workshop: Tea Time - SCGP Cafe**

**Title:** Tea Time