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

## Events for:
## Monday, January 22nd - Friday, January 26th

| Monday, January 22nd |
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**8:30am** **Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

**9:30am** **Workshop: Talk - Ben Davison - SCGP 102**

**Speaker:** Ben Davison

**Title:** Purity and positivity in Donaldson-Thomas theory I

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

**Title:** Coffee Break

**11:00am** **Workshop: Talk - Mircea Mustata - SCGP 102**

**Speaker:** Mircea Mustata

**Title:** Minimal exponent and singularities I

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

**Title:** Lunch

**2:30pm** **Workshop: Talk - Sung Gi Park - SCGP 102**

**Speaker:** Sung Gi Park

**Title:** Log canonical singularities are Du Bois

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

**Title:** Tea Time

## Tuesday, January 23rd

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

    **Title:** Breakfast

9:30am  **Workshop: Talk - Mircea Mustata - SCGP 102**

    **Speaker:** Mircea Mustata

    **Title:** Minimal exponent and singularities II

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

    **Title:** Coffee Break

11:00am **Workshop: Talk - Radu Laza - SCGP 102**

    **Speaker:** Radu Laza

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

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

    **Title:** Lunch

2:30pm  **Workshop: Talk - Ben Davison - SCGP 102**

    **Speaker:** Ben Davison

    **Title:** Purity and positivity in Donaldson-Thomas theory II

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

    **Title:** Tea Time

## Wednesday, January 24th

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

**Title:** Breakfast

9:30am **Workshop: Qianyu Chen - SCGP 102**

**Speaker:** Qianyu Chen

**Title:** Minimal exponent and singularities III

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

**Title:** Coffee Break

11:00am **Workshop: Talk - Ben Davison - SCGP 102**

**Speaker:** Ben Davison

**Title:** Purity and positivity in Donaldson-Thomas theory III

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

**Title:** Lunch

2:30pm **Workshop: Talk - Ruijie Yang - SCGP 102**

**Speaker:** Ruijie Yang

**Title:** Hodge modules and singular hermitian metrics

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

**Title:** Tea Time

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

**Title:** Banquet Dinner

## Thursday, January 25th

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

**Title:** Breakfast

9:30am **Workshop: Talk - Ben Davison - SCGP 102**

**Speaker:** Ben Davison

**Title:** Purity and positivity in Donaldson-Thomas theory IV

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

**Title:** Coffee Break

11:00am **Workshop: Talk - Qianyu Chen - SCGP 102**

**Speaker:** Qianyu Chen

**Title:** Minimal exponent and singularities IV

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

**Title:** Lunch

2:30pm **Workshop: Talk - Radu Laza - SCGP 102**

**Speaker:** Radu Laza

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

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

**Title:** Tea Time

## Friday, January 26th

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

**Title:** Breakfast

9:30am **Workshop: Talk - Qianyu Chen - SCGP 102**

**Speaker:** Qianyu Chen

**Title:** Minimal exponent and singularities V

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 V

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

**Title:** Lunch

2:30pm   **Workshop: Talk - Ben Davison - SCGP 102**

**Speaker:** Ben Davison

**Title:** Purity and positivity in Donaldson-Thomas theory V

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

**Title:** Tea Time