



Centre de conférences Marilyn et James Simons, 16-27 July 2018

# SUPERSYMMETRIC LOCALIZATION and EXACT RESULTS

## PROGRAMME 1<sup>st</sup> week

### Monday 16 July

|               |                                                             |
|---------------|-------------------------------------------------------------|
| 8.45 – 9.15   | <i>Welcome coffee and registration</i>                      |
| 9.15 – 10.45  | Guido FESTUCCIA: <i>Curved-space supersymmetry (1/5)</i>    |
| 10.45 – 11.00 | <i>Coffee break</i>                                         |
| 11.00 – 12.30 | Francesco BENINI: <i>Introduction to localization (1/5)</i> |
| 12.30 – 2.30  | <i>Lunch break</i>                                          |
| 2.30 – 4.00   | Wolfger PEELAERS: <i>4d N = 2 localization (1/5)</i>        |
| 4.00 – 4.30   | <i>Coffee break</i>                                         |
| 4.30 – 6.00   | Exercises                                                   |

### Tuesday 17 July

|               |                                                             |
|---------------|-------------------------------------------------------------|
| 9.00 – 9.15   | <i>Coffee</i>                                               |
| 9.15 – 10.45  | Guido FESTUCCIA: <i>Curved-space supersymmetry (2/5)</i>    |
| 10.45 – 11.00 | <i>Coffee break</i>                                         |
| 11.00 – 12.30 | Francesco BENINI: <i>Introduction to localization (2/5)</i> |
| 12.30 – 2.30  | <i>Lunch break</i>                                          |
| 2.30 – 4.00   | Wolfger PEELAERS: <i>4d N = 2 localization (2/5)</i>        |
| 4.00 – 4.30   | <i>Coffee break</i>                                         |
| 4.30 – 6.00   | Exercises                                                   |

### Wednesday 18 July

|               |                                                             |
|---------------|-------------------------------------------------------------|
| 9.00 – 9.15   | <i>Coffee</i>                                               |
| 9.15 – 10.45  | Francesco BENINI: <i>Introduction to localization (3/5)</i> |
| 10.45 – 11.00 | <i>Coffee break</i>                                         |
| 11.00 – 12.30 | Guido FESTUCCIA: <i>Curved-space supersymmetry (3/5)</i>    |
| 12.30 – 2.00  | <i>Buffet-lunch</i>                                         |
| 2.00 – 3.30   | Wolfger PEELAERS: <i>4d N = 2 localization (3/5)</i>        |
| 3.30 – 4.00   | <i>Coffee break</i>                                         |
| 4.00 – 5.30   | Seiji TERASHIMA: <i>4d N = 1 localization (1/2)</i>         |



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## Thursday 19 July

|               |                                                                   |
|---------------|-------------------------------------------------------------------|
| 9.00 – 9.15   | Coffee                                                            |
| 9.15 – 10.45  | Francesco BENINI: <i>Introduction to localization (4/5)</i>       |
| 10.45 – 11.00 | Coffee break                                                      |
| 11.00 – 12.30 | Guido FESTUCCIA: <i>Curved-space supersymmetry (4/5)</i>          |
| 12.30 – 2.30  | Lunch break                                                       |
| 2.30 – 4.00   | Wolfger PEELAERS: <i>4d <math>N = 2</math> localization (4/5)</i> |
| 4.00 – 4.30   | Coffee break                                                      |
| 4.30 – 6.00   | Exercises                                                         |

## Friday 20 July

|               |                                                                   |
|---------------|-------------------------------------------------------------------|
| 9.00 – 9.15   | Coffee                                                            |
| 9.15 – 10.45  | Francesco BENINI: <i>Introduction to localization (5/5)</i>       |
| 10.45 – 11.00 | Coffee break                                                      |
| 11.00 – 12.30 | Guido FESTUCCIA: <i>Curved-space supersymmetry (5/5)</i>          |
| 12.30 – 2.30  | Lunch-break                                                       |
| 2.30 – 4.00   | Wolfger PEELAERS: <i>4d <math>N = 2</math> localization (5/5)</i> |
| 4.00 – 4.30   | Coffee break                                                      |
| 4.30 – 6.00   | Seiji TERASHIMA: <i>4d <math>N = 1</math> localization (2/2)</i>  |

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## PROGRAMME 2<sup>nd</sup> week

### Monday 23 July

|               |                                                                |
|---------------|----------------------------------------------------------------|
| 9.00 – 9.15   | Coffee                                                         |
| 9.15 – 10.45  | Maxim ZABZINE: <i>Index theorems and 5d localization (1/4)</i> |
| 10.45 – 11.00 | Coffee break                                                   |
| 11.00 – 12.30 | Nikita NEKRASOV: <i>Instantons (1/3)</i>                       |
| 12.30 – 2.30  | Lunch-break                                                    |
| 2.30 – 4.00   | Takuya OKUDA: <i>Extended operators (1/2)</i>                  |
| 4.00 – 4.30   | Coffee break                                                   |
| 4.30 – 6.00   | Exercises                                                      |

### Tuesday 24 July

|               |                                                                |
|---------------|----------------------------------------------------------------|
| 9.00 – 9.15   | Coffee                                                         |
| 9.15 – 10.45  | Maxim ZABZINE: <i>Index theorems and 5d localization (2/4)</i> |
| 10.45 – 11.00 | Coffee break                                                   |
| 11.00 – 12.30 | Nikita NEKRASOV: <i>Instantons (2/3)</i>                       |
| 12.30 – 2.30  | Lunch-break                                                    |
| 2.30 – 4.00   | Takuya OKUDA: <i>Extended operators (2/2)</i>                  |
| 4.00 – 4.30   | Coffee break                                                   |
| 4.30 – 6.00   | Exercises                                                      |

### Wednesday 25 July

|               |                                                                |
|---------------|----------------------------------------------------------------|
| 9.00 – 9.15   | Coffee                                                         |
| 9.15 – 10.45  | Maxim ZABZINE: <i>Index theorems and 5d localization (3/4)</i> |
| 10.45 – 11.00 | Coffee break                                                   |
| 11.00 – 12.30 | Student talks                                                  |
| 12.30 – 2.00  | Buffet-lunch                                                   |
| 2.00 – 3.30   | Zohar KOMARGODSKI: <i>Extremal correlators (1/4)</i>           |
| 3.30 – 4.00   | Coffee break                                                   |
| 4.00 – 5.30   | Nikita NEKRASOV: <i>Instantons (3/3)</i>                       |



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## Thursday 26 July

- 9.00 – 9.15            *Coffee*  
9.15– 10.45        *Maxim ZABZINE: Index theorems and 5d localization (4/4)*  
10.45 – 11.00      *Coffee break*  
11.00 – 12.30      *Student talks*
- 12.30 – 2.30        *Lunch-break*
- 2.30 – 4.00         *Zohar KOMARGODSKI: Extremal correlators (2/4)*  
4.00 – 4.30         *Coffee break*  
4.30 – 6.00         *Exercises*

## Friday 27 July

- 9.00 – 9.15            *Coffee*  
9.15 – 10.15        *Exercises*  
10.30– 12.30        *Balt van REES: Chiral algebras (1/2)*
- 12.30 – 2.00        *Lunch-break*
- 2.00 – 3.15         *Zohar KOMARGODSKI: Extremal correlators (3/4)*  
3.30 – 4.30         *Zohar KOMARGODSKI: Extremal correlators (4/4)*  
4.30 – 5.00         *Coffee break*  
5.00 – 6.00         *Balt van REES: Chiral algebras (2/2)*

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