

ISM discovery school 8–11 May 2018 + CIRGET conference 12–13 May 2018

## Perspectives on bordered Heegaard Floer theory

### Schedule

#### Tuesday

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|-------|--|
| 9.50  | welcome  |
| 10.00 | Jake Rasmussen   lecture 1: Introduction to $\widehat{HF}$     |
| 11.00 | tea & coffee   |
| 11.30 | John Baldwin   lecture 1: 3-manifolds and open books           |
| 13.00 | lunch  |
| 14.30 | John Baldwin   lecture 2: Open books and the contact invariant |
| 16.00 | tea & coffee @PK-5675  |
| 16.30 | Q&A exercise session @PK-5675                                  |

#### Wednesday

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|-------|--|
| 9.30  | Jake Rasmussen   lecture 2: $\widehat{HF}$ as a 2+1+1 dimensional TQFT |
| 11.00 | tea & coffee   |
| 11.30 | Jonathan Hanselman   lecture 1   |
| 13.00 | lunch  |
| 14.30 | John Baldwin   lecture 3: Applications of the contact invariant        |
| 16.00 | tea & coffee @PK-5675  |
| 16.30 | Q&A exercise session @PK-5675  |

#### Thursday

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|-------|--|
| 9.30  | Jake Rasmussen   lecture 3: Sutured Floer homology |
| 11.00 | tea & coffee                                       |
| 11.30 | Jonathan Hanselman   lecture 2                     |
| 13.00 | lunch  |
| 14.30 | Jonathan Hanselman   lecture 3                     |
| 16.00 | tea & coffee @PK-5675                              |
| 16.30 | Q&A exercise session @PK-5675                      |

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### Friday

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- 9.30 Jake Rasmussen | lecture 4: Applications
- 11.00 tea & coffee
- 11.30 Cameron Gordon | The L-space conjecture and cyclic branched covers of knots
- 12.30 lunch
- 14.00 Sarah Rasmussen | TBA
- 15.00 tea & coffee
- 15.30 Robert Lipshitz | Bordered-sutured Floer homology and boundary-parallel tangles
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### Saturday

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- 9.30 Artem Kotelskiy | Khovanov homology via immersed curves in the pillowcase
- 10.20 tea & coffee
- 10.50 Ina Petkova | Knot Floer homology and the  $\mathfrak{gl}(1|1)$  link invariant
- 11.40 Tom Hockenhull | Heegaard Floer invariants of links
- 12.30 lunch
- 14.00 Marco Marengon | Strand algebras and bordered-style knot homologies
- 14.50 tea & coffee
- 15.20 Matt Hedden | Irreducible homology  $S^1 \times S^2$ s which aren't zero surgery on knot
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### Sunday

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- 9.30 Ying Hu | From taut foliations to the left-orderability of 3-manifold groups
- 10.20 tea & coffee
- 10.50 Xinghua Gao | Orderability of Dehn fillings
- 11.40 Biji Wong | A Floer homology invariant for 3-orbifolds via bordered Floer
- 12.30 lunch/end of workshop
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