### Introduction Workshop on HMS, Logic, and Sandpiles

#### Monday, September 9th

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m.</td>
<td>Higher Genus Gromov Witten Theory on the Quintic Threefold</td>
<td>Yongbin Ruan (Michigan)</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>Skeins, Landau-Ginzburg Models, and Quantum K-theory</td>
<td>Sergei Gukov (Cal Tech)</td>
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<tr>
<td>12:00 p.m.</td>
<td>Cosheaves of Wrapped Fukaya Categories</td>
<td>John Pardon (Princeton)</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>Geometric Recursion</td>
<td>Jorgen Andersen (Aarhus University)</td>
</tr>
<tr>
<td>3:45 p.m.</td>
<td>Cohomological Hall Algebras and Nekrasov’s Instantons</td>
<td>Yan Soibelman (Kansas State)</td>
</tr>
<tr>
<td>5:00 p.m.</td>
<td>Stability Conditions and Spectral Networks I</td>
<td>Carlos Simpson (Nice)</td>
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#### Tuesday, September 10th

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>9:00 a.m.</td>
<td>Stability Conditions and Spectral Networks II</td>
<td>Carlos Simpson (Nice)</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>On Constant Scalar Curvature Kaehler Metrics</td>
<td>Xiuxiong Chen (Stony Brook and Shanghai Tech)</td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>Broken Techniques for Disappearing Things I</td>
<td>Hiro Lee Tanaka (Texas State University)</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>Quantum Topology of Legendrian Curves</td>
<td>Fabian Haiden (Oxford)</td>
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<tr>
<td>3:45 p.m.</td>
<td>Smoothing Toroidal Crossing Spaces</td>
<td>Helge Ruddat (Mainz)</td>
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<tr>
<td>5:00 p.m.</td>
<td>On Pseudo-Anosov Autoequivalences</td>
<td>Yu-Wei Fan (Berkeley)</td>
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### Wednesday, September 11th

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>9:00 a.m.</td>
<td>Deforming Gromov-Witten-Floer Theory via Holomorphic Curves Outside</td>
<td>Kenji Fukaya (Simons Center Stony Brook)</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>Asymptotic Behavior of Vianna’s Exotic Lagrangian Tori</td>
<td>Yong-Geun Oh (IBS Center Pohang)</td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>Broken Techniques for Disappearing Things II</td>
<td>Hiro Lee Tanaka (Texas State University)</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>Foundations of Quantum Toric Geometry</td>
<td>Ernesto Lupercio (Cinvestav)</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td>Towards A+B Theory in Conifold Transitions for Calabi-Yau Threefolds</td>
<td>Yuan-Pin Lee (Utah)</td>
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<tr>
<td>7:30 p.m.</td>
<td>Dinner</td>
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### Thursday, September 12th

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m.</td>
<td>Holomorphic Curves and the HOMFLY-PT Polynomial</td>
<td>Tobias Ekholm (Mittag-Leffler)</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>Quantum Toric Geometry and Chimeric Geometry</td>
<td>Ernesto Lupercio (Civerstav)</td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>Cohomology of Log Symplectic Pairs</td>
<td>Andrew Harder (Lehigh)</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>Perverse Schobers: Examples and Applications</td>
<td>Benjamin Gammage (Miami)</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td>Homological Mirror Symmetry for the Hopf Surface</td>
<td>Abigail Ward (Stanford)</td>
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## Friday, September 13th

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m.</td>
<td>The Hidden Diversity of Bacteria and Emergent Properties in Synthetic Communities</td>
<td>Gabriela Olmedo (Cinvestav)</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>Homological Mirror Symmetry for Generalized Tate Curves</td>
<td>Alexander Efimov (Steklov and HSE)</td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>HMS and VGIT - An Overview, Techniques and Results</td>
<td>Gabriel Kerr (Kansas State)</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>On Geometry of Pairs-of-Pants</td>
<td>Ilia Zharkov (Kansas State)</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td>On the Construction of the T-dual for Nilmanifolds and Applications</td>
<td>Lino Grama (Unicamp)</td>
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