The Institute of the Mathematical Sciences of the Americas
9-13 September 2019

<u>Introduction Workshop on HMS, Logic, and Sandpiles</u>

Monday, September 9th

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

Tuesday, September 10th

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

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Wednesday, September 11th

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

Thursday, September 12th

9:00 a.m.	*Holomorphic Curves and the HOMFLY-PT Polynomial* *Tobias Ekholm (Mittag-Leffler)*
10:30 a.m.	*Quantum Toric Geometry and Chimeric Geometry* *Ernesto Lupercio (Civerstav)*
12:00 p.m.	*Cohomology of Log Symplectic Pairs* *Andrew Harder (Lehigh)*
2:30 p.m.	*Perverse Schobers: Examples and Applications* *Benjamin Gammage (Miami)*
4:00 p.m.	*Homological Mirror Symmetry for the Hopf Surface* *Abigail Ward (Stanford)*

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Friday, September 13th

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