

Inaugural Conference of the Institute of the Mathematical Sciences of the Americas

September 6 – 8, 2019

[Program Schedule](#)
[at the](#)
[Newman Alumni Center](#)

Friday, September 6, 2019

1:00 to 1:30 pm	<i>Opening Remarks by President Julio Frenk</i>
1:30 to 2:00 pm	<i>Dr. James Simons - Remarks on Science Philanthropy</i>
2:00 to 2:30 pm	Break
2:30 to 3:30 pm	<i>Dr. Denis Auroux - An Invitation to Homological Mirror Symmetry</i>
3:30 to 4:30 pm	<i>Dr. Ingrid Daubechies - Teeth, Bones and Manifolds</i>
4:30 to 5:30 pm	<i>Dr. Yuri Tschinkel - Rational Points, Rational Curves, and Rational Varieties</i>
5:30 to 6:30 pm	Cocktail Reception

Saturday, September 7, 2019

8:00 to 9:00 am	Breakfast
9:00 to 10:00 am	<i>Dr. Simon Donaldson - Branched Harmonic Functions and Some Related Developments in Differential Geometry</i>
10:30 to 11:30 am	<i>Dr. Phillip Griffiths - Hodge Theory and Moduli</i>
11:45 to 12:45 pm	<i>Dr. Maxim Kontsevich - Arithmetic Hall Algebras</i>
1:00 to 2:30 pm	Lunch
2:30 to 3:30 pm	<i>Dr. Marcelo Viana - Two Issues in Partially Hyperbolic Dynamics</i>
3:45 to 4:45 pm	<i>Dr. Mina Teicher - How Does the Brain Work?</i>

5:00 to 6:00 pm *Dr. Ernesto Lupercio - Self Organized Criticality in Algebraic Geometry*

Sunday, September 8, 2019

8:00 to 9:00 am **Breakfast**

9:00 to 10:00 am *Dr. Richard Stanley - A Survey of Lattice Polytopes*

10:30 to 11:30 am *Dr. Alan Hastings - Transient Dynamics in Ecology*

11:45 to 12:45 pm *Dr. Michelle Wachs - From Eulerian Polynomials and Chromatic Polynomials to Hessenberg Varieties*

1:00 to 2:30 pm **Lunch**

2:30 to 3:30 pm *Dr. John Morgan - Mirror Symmetry, Integral Lattices, and a Conjecture of Morrison's*

4:00 to 5:00 pm *Dr. Jørgen Andersen – Geometric Recursion*