



**1<sup>ST</sup> JOINT MEETING  
BRAZIL - FRANCE  
IN MATHEMATICS**

# 1<sup>st</sup> Joint Meeting Brazil-France in Mathematics

IMPA, Rio de Janeiro, July 15 – 19, 2019

## Program

Time	Monday, 15	Tuesday, 16	Wednesday, 17	Thursday, 18	Friday, 19
08:00 - 09:30	Registration				
09:30 - 10:30	<p><b>Lectures Series - Geometry from A to... B</b> by Etienne Ghys (ENS-Lyon) <i>5 of my favorite geometry papers</i></p> <p>1- Monge and optimal transport (1776)      2- Gauss and cartography (1825)      3- Hadamard and geodesics of negatively curved surfaces (1898)      4- Poincaré and geodesics of positively curved surfaces (1905)      5- Birkhoff and the ergodic theorem (1931)</p>				
10:30 - 11:00	Coffee Break				
11:00 - 12:00	<p><b>Augusto Teixeira</b> (IMPA) <i>Random walk on the simple symmetric exclusion process</i></p>	<p><b>Hugo Duminil-Copin</b> (IHES) <i>A New Link Between Bernoulli Percolation and the Gaussian Free Field</i></p>	<p><b>Antoine Song</b> (Princeton University) <i>Abundance of minimal hypersurfaces in closed manifolds</i></p>	<p><b>Jorge Vitório Pereira</b> (IMPA) <i>Codimension one foliations on projective manifolds</i></p>	<p><b>Maria Eulalia Vares</b> (UFRJ) <i>Metastability for stochastic dynamics: a quick review and some new results</i></p>
12:00 - 13:00	<p><b>Artur Avila</b> (IMPA / Universität Zürich) <i>Renormalization of one-frequency cocycles with values on compact Lie groups</i></p>	<p><b>Serge Cantat</b> (U Rennes 1) <i>The geometric Bogomolov conjecture</i></p>	<p><b>Gregory Miermont</b> (ENS- Lyon) <i>Brownian surfaces</i></p>	<p><b>Benoît Perthame</b> (U Paris 6) <i>Some Equations of Mathematical Biology</i></p>	<p><b>Olivier Mathieu</b> (U Lyon) <i>Self Similarity of groups</i></p>
13:00 - 14:30	Lunch				
14:30 - 16:30	<p><b>14:30 - 15:20</b> <b>Special Sessions</b> 11, 13, 20, 21, 24, 25</p> <p><b>15:30 - 16:30</b> <b>João Candido Portinari</b> (PUC-Rio) <i>"The Portinari Project: Science and Art Team Up Together to Help Cultural Projects"</i></p>	<p><b>Special Sessions</b> 2, 5, 7, 13, 14, 16, 17, 19, 21, 22, 23, 24</p>	<p><b>Special Sessions</b> 2, 4, 5, 7, 13, 14, 16, 17, 19, 21, 22, 23</p>	<p><b>Special Sessions</b> 1, 3, 4, 6, 8, 9, 10, 11, 12, 15, 18, 20, 25</p>	<p><b>Special Sessions</b> 1, 3, 6, 8, 9, 10, 11, 12, 15, 18, 20, 24, 25</p>
16:30 - 16:45	Coffee				
16:45 - 18:45	<p><b>17:00 - 18:00</b> <b>Opening</b></p>	<p><b>Special Sessions</b> 2, 5, 7, 13, 14, 16, 17, 19, 21, 22, 23, 24</p>	<p><b>Special Sessions</b> 2, 4, 5, 7, 13, 14, 16, 17, 19, 21, 22, 23</p>	<p><b>Special Sessions</b> 1, 3, 4, 6, 8, 9, 10, 11, 12, 15, 18, 20, 25</p>	<p><b>Special Sessions</b> 1, 3, 6, 8, 9, 10, 11, 12, 15, 18, 20, 24, 25</p>
18:00 - 20:00	Cocktail				