

**JDG 2017 Conference on Geometry and Topology:
Celebrating 50 years of the Journal of Differential Geometry**

Friday April 28, 2017

2:00–2:30 pm	ST Yau, HD Cao, etc.	<i>Opening Comments</i>
2:30–3:20 pm	Cliff Taubes (Harvard)	<i>The behavior of sequence of solutions to the Vafa-Witten equations</i>
3:35–4:25 pm	Melissa Liu (Columbia)	<i>Mirror symmetry and topological recursion</i>
4:40–5:30 pm	Cumrun Vafa (Harvard)	<i>String theory and homological invariants for 3-manifolds</i>
5:45–6:35 pm	Dan Freed (U Texas)	<i>Complex Chern-Simons invariants of 3-manifolds and abelianization</i>

Saturday April 29, 2017

9:00–9:50 am	Frances Kirwan (Oxford)	<i>Variation of non-reductive geometric invariant theory</i>
10:05–10:55 am	Mina Aganagic (UC Berkeley)	<i>Mathematical applications of little string theory</i>
11:10–12:00 pm	Caucher Birkar (Cambridge)	<i>Singularities and Fano varieties in birational geometry</i>
12:00–1:30	lunch break	
1:30–2:20 pm	Duong Phong (Columbia)	<i>Supersymmetric string vacua with torsion and geometric flows</i>
2:35–3:25 pm	Richard Schoen (UC Irvine)	<i>The Einstein constraint equations</i>
3:45–4:35 pm	Fernando Coda Marques (Princeton)	<i>The space of cycles, a Weyl's law for minimal hypersurfaces and Morse index estimates</i>
4:50–5:40 pm	Ciprian Manolescu (UCLA)	<i>Homology cobordism and triangulations</i>
7:00 pm	Banquet at Loeb House <i>By invitation only</i>	

Sunday April 30, 2017

9:00–9:50 am	Jun Li (Stanford)	<i>New recursion relation for GW of quintic CY via mixed-spin-P fields</i>
10:05–10:55 am	Si Li (Tsinghua)	<i>Vertex algebras, quantum master equation and mirror symmetry</i>
11:10–12:00 am	Yujiro Kawamata (U Tokyo)	<i>Birational geometry and derived categories</i>
12:00–1:30	lunch break	
1:30–2:20 pm	Alena Pirutka (Courant Institute, NYU)	<i>Irrationality problems</i>
2:35–3:25 pm	Mu-Tao Wang (Columbia)	<i>Linear stability of Schwarzschild black hole: the Cauchy problem of metric coefficients</i>
3:45–4:35 pm	Jean-Pierre Demailly (Grenoble)	<i>L^2 Extension theorem for sections defined on non reduced analytic subvarieties</i>
4:50–5:40 pm	Bong Lian (Brandeis)	<i>The Riemann-Hilbert problem for period integrals--recent applications</i>
5:55–6:45 pm	Steve Zelditch (Northwestern)	<i>Local and global analysis of nodal sets</i>

Monday May 1, 2017

9:00–9:50 am	Richard Hamilton (Columbia)	<i>tba</i>
10:05–10:55 am	Huai-Dong Cao (Lehigh)	<i>Geometry and stability of Ricci solitons</i>
11:10–12:00 pm	Larry Guth (MIT)	<i>Efficiently contracting contractible maps</i>
12:00–1:30 pm	lunch break	
1:30–2:20 pm	Simon Donaldson (Stony Brook)	<i>Variational problems related to special holonomy</i>
2:35–3:25 pm	Blaine Lawson (Stony Brook)	<i>Lagrangian potential theory and a Lagrangian equation of Monge-Ampère type</i>
3:45–4:35 pm	William Meeks (UMASS Amherst)	<i>Recent progress in the theory of CMC surfaces in 3-manifolds</i>

Tuesday May 2, 2017

9:00–9:50 am	Camillo De Lellis (ETH Zurich)	<i>The Onsager theorem</i>
10:05–10:55 am	Denis Auroux (UC Berkeley)	<i>Speculations about homological mirror symmetry for affine hypersurfaces</i>
11:10–12:00 pm	John Pardon (Princeton)	<i>Liouville sectors and local open-closed map</i>
12:00–1:30 pm	lunch break	
1:30–2:20 pm	William Minicozzi (MIT)	<i>Level set method for motion by mean curvature</i>
2:35–3:25 pm	Kenji Fukaya (Stony Brook)	<i>Equivariant Floer homology</i>
3:45–4:35 pm	David Gabai (Princeton)	<i>The 4-Dimensional light bulb theorem</i>
4:50–5:40 pm	Artan Sheshmani (Harvard)	<i>Nested Hilbert schemes, local Donaldson-Thomas theory, Vafa-Witten and Seiberg-Witten invariants</i>
5:55–6:45 pm	Tristan Collins (Harvard)	<i>The deformed Hermitian-Yang-Mills equation</i>