

Conference

“Differential geometry beyond Riemannian manifolds”

March 24 - 28, 2025

organized by

Ursula Hamenstädt, Yevgeny Liokumovich, Andrea Mondino, Stephan Stadler, Stefan Wenger, Robert Young

• Monday, March 24

09:00 - 09:25	<i>Self Registration</i>
09:25 - 09:30	<i>Welcome by HIM Director Karl-Theodor Sturm</i>
09:30 - 10:30	Bruce Kleiner Mean curvature flow in \mathbb{R}^3 and the Multiplicity One Conjecture
10:30 - 11:00	<i>Coffee Break</i>
11:00 - 12:00	Giada Franz Unknottedness of free boundary minimal surfaces and self-shrinkers
12:00 - 13:30	<i>Lunch Break</i>
13:30 - 14:30	Urs Lang A sharp isoperimetric gap theorem in non-positive curvature
14:30 - 15:00	<i>Coffee Break</i>
15:00 - 16:00	Chikako Mese Harmonic Maps into Euclidean Buildings and Applications

• **Tuesday, March 25**

09:00 - 10:00	Melanie Rupflin Quantitative stability estimates for the Dirichlet energy
10:15 - 11:15	Fedor Manin The Morse landscape of the Lipschitz functional
11:15 - 11:45	<i>Coffee Break and Group Photo</i>
11:45 - 12:45	Ailana Fraser Stable minimal surfaces in higher codimension
12:45 - 14:30	<i>Lunch Break</i>
14:30 - 15:30	Antoine Song Geometry of the regular representation of hyperbolic groups
15:30 - 16:00	<i>Coffee Break</i>
16:00 - 17:00	Lightning talks 6 talks given by the young participants (each talk will be followed by a short discussion)
17:00 - 19:00	<i>Reception</i>

• **Wednesday, March 26**

09:00 - 10:00	Roman Sauer Waist inequalities and the Kazhdan property
10:15 - 11:15	Damaris Meier Bubbling and homotopic energy minimizers in metric spaces
11:15 - 11:45	<i>Coffee Break</i>
11:45 - 12:45	Pierre Pansu Mass decompositions of currents
<i>afterwards</i>	<i>Lunch break and free afternoon</i>

• **Thursday, March 27**

09:00 - 10:00	Bernhard Hanke Lipschitz rigidity for scalar curvature
10:15 - 11:15	Christine Breiner Harmonic maps into Euclidean buildings
11:15 - 11:45	<i>Coffee Break</i>
11:45 - 12:45	Alexander Lytchak Submetries
12:45 - 14:30	<i>Lunch Break</i>
14:30 - 15:30	Cornelia Drutu Combings, local-to-global properties and divergence
15:30 - 16:00	<i>Coffee Break</i>
16:00 - 17:00	Open discussion

• **Friday, March 28**

09:00 - 10:00	Alexander Nabutovsky Boxing inequalities, widths and systolic geometry
10:00 - 10:30	<i>Coffee Break</i>
10:30 - 11:30	Richard Bamler Toward a theory of Ricci flow in dimension 4
<i>afterwards</i>	<i>closing</i>