# "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**

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

- **Tuesday, March 25**

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| 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 | *Coffee Break and Group Photo* |
| 11:45 - 12:45 | **Ailana Fraser** |
| | Title |
| 12:45 - 14:30 | *Lunch Break* |
| 14:30 - 15:30 | **Antoine Song** |
| | Geometry of the regular representation of hyperbolic groups |
| 15:30 - 16:00 | *Coffee Break* |
| 16:00 - 17:00 | **Lightning talks** |
| | TBD |
| 17:00 - 19:00 | *Reception* |

- **Wednesday, March 26**

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| 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 | *Coffee Break* |
| 11:45 - 12:45 | **Pierre Pansu** |
| | Mass decompositions of currents |
| *afterwards* | *Lunch break and free afternoon* |

- **Thursday, March 27**

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|---|---|
| 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 | *Coffee Break* |
| 11:45 - 12:45 | **Alexander Lytchak** |
| | Submetries |
| 12:45 - 14:30 | *Lunch Break* |
| 14:30 - 15:30 | **Cornelia Drutu** |
| | Title |
| 15:30 - 16:00 | *Coffee Break* |
| 16:00 - 17:00 | **Open discussion** |

- **Friday, March 28**

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