

YTM 2024 UNI-MÜNSTER



MONDAY

↘ 10:00	REGISTRATION / COFFEE	
↘ 10:30	OPENING	
↘ 11:00 TO 12:00	ISHAN LEVY TALK 1	
↘ 12:05 TO 12:35	JORDI DAURA SERRANO If it swims like a torus and quacks like a torus, then is it a torus?	SOFÍA MARLASCA APARICIO Ultrasolid homotopical algebra
LUNCH BREAK		
↘ 14:00 TO 14:30	VALENTINA BAIS Spin structures on Pseudo-Riemannian cobordism	FLORIAN SCHWARZ Differential bundles in tangent (infinity) categories
↘ 14:35 TO 15:05	HELGE FRERICHS Scalar curvature deformations with non- compact boundaries	SHAI KEIDAR Higher Galois Theory
COFFEE		
↘ 15:35 TO 16:05	RIYA DOGRA Molecular Braids	MAX BLANS On the chain rule in Goodwillie calculus
↘ 16:10 TO 16:40	ARTURO ESPINOSA Sequential topological complexity of aspherical spaces and sectional categories of subgroup inclusions	KAIF HILMAN An equivariant-to- calculus dictionary



YTM 2024

UNI-MÜNSTER



TUESDAY

⌞ 10:00
11:00

ARUNIMA RAY
TALK 1

COFFEE

⌞ 11:30
TO 12:00

ANUSHREE DAS
Volume growth on
manifolds with multiple
ends

MILICA JOVANOVIĆ
Steenrod operations on
polyhedral products

⌞ 12:05
TO 12:35

FADI MEZHER
Residual finiteness of
some automorphism
groups of manifolds

VICTOR SAUNIER
Trace methods for stable
categories

LUNCH BREAK

⌞ 14:00
TO 14:30

PRIYANKA MAGAR
Concordance structures
of sets of 8, 9, 10
dimensional manifolds

BRANKO JURAN
The algebraic K-theory of
algebraic tori via equivariant
homotopy theory

⌞ 14:35
TO 15:05

IOANNIS GKENERALIS
Topological rigidity of
quoric manifolds

NINGCHUAN ZHANG
Equivariant algebraic K-
theory and Artin L-functions

COFFEE

⌞ 15:35
TO 16:05

ANTOINE COMMARET
Persistent intrinsic
volumes

**VALENTINA ZAPATA
CASTRO**
Monoidal (infty, n)-categories

⌞ 16:10
TO 16:40

ANNA SCHENFISCH
Verbose persistence and
caterpillar metrics

SVEN VAN NIGTEVECHT
A synthetic version of
topological modular forms

⌞ 17:00
TO 19:00

POSTER SESSION
with finger food!



YTM 2024 UNI-MÜNSTER



WEDNESDAY

➤ 10:00
TO 11:00

ISHAN LEVY
TALK 2

COFFEE

➤ 11:30
TO 12:00

KAELYN WILLINGHAM
The spectral properties of
the algebraic path
problem

**BJØRNAR GULLIKSTAD
HEM**
An analogue of manifold
calculus for multi-
persistence modules

➤ 12:05
TO 12:35

TONY MBAMBU KAKONA
On the path integral
representation of analytic
torsion

ZACHARY GARDNER
Moduli of truncated
prismatic (G, μ)-
displays

➤ 12:35
TO 14:00

GENDER MINORITY LUNCH

FREE AFTERNOON

ask an Organizer about our activity options ~



YTM 2024 UNI-MÜNSTER



THURSDAY

10:00
11:00

ARUNIMA RAY
TALK 2

COFFEE

11:30
TO 12:00

ALEXEY GORELOV
Lifting maps between
graphs to embeddings

KAMEN PAVLOV
On the homotopy
classification of 4-manifolds
with fundamental group $Z \times Z_p$

12:05
TO 12:35

MONIKA
On a generalization of the
Jones polynomial and the
Khovanov homology for
Legendrian knots

EMMA BRINK
Equivariant bordism and
Thom spectra



LUNCH BREAK

14:00
TO 14:30

TUOMAS KELOMÄKI
Discrete Morse theory for
additive categories and
Khovanov homology

ALICE ROLF
Endomorphisms and
Automorphisms of the
Framed Little Disk operad

14:35
TO 15:05

JESSE COHEN
Bordered Floer theory,
Hochschild homology,
and links in $S^1 \times S^2$

KURT STOECKL
Segal Infinity Props

COFFEE

15:35
TO 16:05

MUHAMMED E. GUELEN
Reeb flows on 3-manifolds:
The two or infinity
conjecture

MARCO VOLPE
Traces of dualizable
categories and functoriality of
the Becker-Gottlieb transfers

16:10
TO 16:40

ŁUKASZ MICHALAK
Reeb graph invariants of
Morse functions and 3-
manifold groups

LEOR NEUHAUSER
Categorical Frobenius
algebras are right adjoint to
cospans

19:00

CONFERENCE DINNER

YTM 2024 UNI-MÜNSTER



FRIDAY

10:00
TO 11:00

ISHAN LEVY
TALK 3

COFFEE

11:30
TO 12:30

ARUNIMA RAY
TALK 3

THANKS FOR COMING!



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WHERE THINGS ARE

TALKS

On the left column are in M1 and on the right in M2
(Einsteinstraße 64)

COFFEE BREAKS

In the second floor of Cluster Lounge
(Orléans Ring 12)

POSTER SESSION

In the second floor of Cluster Lounge
(Orléans Ring 12)

SILENT ROOM

In SRZ 104 on the first floor of Cluster Lounge
(Orléans Ring 12)