

Final conference of the SFB/TRR45 Bonn/Essen/Mainz
“Geometry and Arithmetic of Algebraic Varieties”

June 11 - 14, 2019

organized by

Manuel Blickle (Mainz), Gerd Faltings (Bonn), Ulrich Görtz (Essen), Daniel Huybrechts (Bonn), Marc Levine (Essen), Stefan Müller-Stach (Mainz)

• Tuesday, June 11

08:30 - 09:30	Self Registration
09:30 - 10:30	Geordie Williamson <i>Studying the decomposition theorem over the integers</i>
10:30 - 11:15	<i>Coffee break</i>
11:15 - 12:15	Bruno Klinger <i>Tame topology and algebraic geometry</i>
12:15 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Eva Viehmann <i>Affine Deligne–Lusztig varieties in affine flag varieties</i>
15:00 - 15:45	<i>Coffee break</i>
15:45 - 16:45	Chenyang Xu <i>On moduli of K-stable Fano varieties</i>

• Wednesday, June 12

09:30 - 10:30	Bhargav Bhatt <i>Splinters in mixed characteristic</i>
10:30 - 11:15	<i>Coffee break and group photo</i>
11:15 - 12:15	Hélène Esnault <i>Arithmetic subloci of the moduli of local systems</i>
12:15 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Lenny Taelman <i>Derived equivalences of hyperkähler varieties</i>
15:00 - 15:45	<i>Coffee break</i>
15:45 - 16:45	Alexander Kuznetsov <i>Homological projective geometry</i>

17:00 - 18:00	Laurent Fargues <i>Geometrization of the local Langlands correspondence</i>
18:00 -	<i>Party - 1st Floor Endenicher Allee 60</i>

• **Thursday, June 13**

09:30 - 10:30	Francis Brown <i>Periods of algebraic varieties and L-functions</i>
10:30 - 11:15	<i>Coffee break</i>
11:15 - 12:15	Jean-Benoit Bost <i>Infinite-dimensional geometry of numbers and arithmetic mod-affine schemes</i>
12:15 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Markus Reineke <i>Supports for linear degenerations of flag varieties</i>
15:00 - 15:45	<i>Coffee break</i>
15:45 - 16:45	Mihnea Popa <i>Minimal exponents of singularities</i>
17:00 - 18:00	Johannes Nicaise <i>The non-archimedean SYZ fibration</i>

• **Friday, June 14**

09:30 - 10:30	Peter Scholze <i>Condensed Mathematics</i>
10:30 - 11:15	<i>Coffee break</i>
11:15 - 12:15	Annette Huber-Klawitter <i>Transcendence of 1-periods – old and new</i>
12:15 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Burt Totaro <i>Rationality of hypersurfaces</i>
15:00 - 15:45	<i>Coffee break</i>
15:45 - 16:45	Mark Kisin <i>Independence of ℓ for Frobenius conjugacy classes attached to Abelian varieties</i>

All talks take place at the "Großer Hörsaal", Wegelerstraße 10, Bonn.