華東師范大學｜数学科学学院
School of Mathematical Sciences,East China Normal University

The 2nd National Algebraic Geometry Conference
第二届全国代数几何会议

East China Normal University, Shanghai
华东师范大学

2019.07.01-2019.07.05

Invited Speakers
邀请报告人

付保华	（中科院数学院）
高　云	（上海交通大学）
郭　帅	（北京大学）
江　辰	（复旦大学）
李长征	（中山大学）
李起峰	（韩国高等研究院）
李卫平	（香港科技大学）
梁乃聪	（香港中文大学）
刘雨晨	（耶鲁大学）
吕　鑫	（华东师范大学）
单　芃	（清华大学）
田志宇	（北京大学）
涂君武	（上海科技大学）
谢松晏	（中科院数学院）
许晨阳	（麻省理工学院）
张　磊	（香港中文大学）
张　通	（华东师范大学）
周向宇	（中科院数学院）

The 2nd National Algebraic Geometry Conference

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张　通　　　（华东师范大学）

The 2nd National Algebraic Geometry Conference

Schedule
日程安排

Venue: 3rd Floor Faculty Center of East China Normal University
地点：华东师范大学教师之家三楼报告厅
Address: No. 5858 South Hongmei Road, Minhang District, Shanghai
地址：上海市闵行区虹梅南路 5858 号

7月1日	7月2日	7月3日	7月4日	7月5日
8：50-9：00 致辞 谈胜利				
9:00—10：00 周向宇	9:00—10：00 梁乃聪	9:00—10：00 许晨阳	9:00—10：00 田志宇	9:00—10：00 涂君武
10：00—10:20 合影，茶歇	10：00-10:20 茶歇	10：00-10:20 茶歇	10：00-10:20 茶歇	10：00-10:20 茶歇
10:20—11:20 单芃	10:20—11:20 李长征	10:20—11:20 高云	10:20—11:20 郭帅	10:20—11:20 刘雨晨
午餐	午餐	午餐	午餐	午餐
1:30—2:30 付保华	1:30—2:30 李卫平	博士报告	1:30—2:30 张通	
2:30—2:40 休息	2:30—2:40 休息		2:30—2:40 休息	
2:40—3:40 谢松晏	2:40—3:40 江辰		2:40—3:40 吕鑫	
3:40—4:00 茶歇			3:40—4:00 茶歇	
4:00—5:00 李起峰			4:00—5:00 张磊	
晚餐	晚餐	晚餐	晚餐	

Abstracts
摘要

Geometry of linear sections of rational homogeneous spaces

付保华

Abstract: Rational homogeneous varieties are among the simplest algebraic varieties, and a better understanding of them is always a motivation for the development of algebraic geometry. The geometry of general linear sections of rational homogeneous spaces are as expected, but special ones may have much richer geometry which remains to be explored systematically. I'll survey recent progress in this direction.

Vector bundles on Flag Varieties

高云

Abstract: We will introduce the background of holomorphic vector bundles on complex projective spaces and study splitting properties of vector bundles on flag varieties over algebraic closed field k. Uniform vector bundles of rank less than or equal to d over the Grassmannian manifold G(d,n) in arbitrary algebraic closed field will be also considered. In addition, we will talk about the generalization of the Grauert-Mulich-Barth theorem on semistable bundles to flag varieties over the field characteristic 0. This is a joint work with R. Du and X.Y. Fang.

The N-Mixed-Spin-P field theory and BCOV's Feynman rule

郭帅

Abstract: During the last two decades, it has been one of the central problem to compute the Gromov–Witten invariants of Calabi–Yau 3-folds. In this talk, we will discuss the recent mathematical approach to the all genera Gromov-Witten potential functions of the quintic threefolds. We will also discuss about the possible generalization of our method. This is a joint work with Huailiang Chang, Weiping Li and Jun Li.

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Minimal log discrepancies of 3-dimensional non-canonical singularities

江辰

Abstract: Canonical and terminal singularities, introduced by Reid, appear naturally in minimal model program and play important roles in the birational classification of higher dimensional algebraic varieties. Such singularities are well-understood in dimension 3, while the property of non-canonical singularities is still mysterious. We investigate the difference between canonical and non-canonical singularities via minimal log discrepancies (MLD). We show that there is a gap between MLD of 3-dimensional non-canonical singularities and that of 3-dimensional canonical singularities, which is predicted by a conjecture of Shokurov.

This result on local singularities has applications to global geometry of Calabi–Yau 3-folds. We show that the set of all non-canonical klt Calabi–Yau 3-folds are bounded modulo flops, and the global indices of all klt Calabi–Yau 3-folds are bounded from above.

Euler characteristics in the quantum K-theory of flag varieties

李长征

Abstract: In this talk, we will discuss the sum of the Schubert structure coefficients in the equivariant quantum K-theory of flag varieties G/P. We will show that the sheaf Euler characteristic of the equivariant quantum K-product of a Schubert class and an opposite Schubert class is equal to q^d, where d is the smallest degree of a rational curve joining the two Schubert varieties. Along the way, we provide a description of the smallest degree d in terms of its projections to flag varieties de fined by maximal parabolic subgroups. This is my joint work with Anders Buch, Sjuvon Chung and Leonardo Mihalcea.

Recognizing rational homogeneous spaces of Picard number one by the varieties of minimal rational tangents

李起峰

Abstract: Let G/P be a rational homogeneous space of Picard number one, and X be a Fano manifold of Picard number one. In this talk we will show that if the VMRT (varieties of minimal rational tangents) at a general point of X is projectively equivalent to that of G/P, then X itself is isomorphic to G/P. Roughly speaking, by the VMRT of X at a general point x we mean the set of tangent directions of those rational curves which have minimal degree among the rational curves on X passing through x. The long root cases of this characterization of G/P are obtained by Mok and Hong-Hwang in 2008. In joint works with Hwang, and Hwang-Timashev, we settle the short root cases.

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Higher genus Gromov-Witten invariants via NMSP

李卫平

Abstract: Higher genus Gromov-Witten invariants of compact Calabi-Yau threefolds are studied extensively by mathematicians and physicists. These GW invariants are conjectured to have some inner structures, called BCOV Feynman summation rule. We will talk about the recent work of using N-mixed-spin-P-fields (NMSP for short) and Givental's R-matrix technique to solve this conjecture.

Homological projective duality and categorical Plucker formula.

梁乃聪

Abstract: I will explain recent joint work with Qing Yuan Jiang and Ying Xie on homological projective duality and categorical Plucker formula for derived categories of coherent sheaves.

Optimal destabilization of K-unstable Fano varieties via stability thresholds

刘雨晨

Abstract: We show that for a K-unstable Fano variety, any divisorial valuation computing its stability threshold induces a special degeneration preserving stability thresholds. We also show openness of K-semistability under the conjecture of existence of divisorial valuation computing stability thresholds. As an application, we show that greatest Ricci lower bounds of Fano manifolds form a finite set of rational numbers in any fixed dimension. As a key step of the proofs, we adapt Li-Xu's process producing special test configurations to twisted K-stability in the sense of Dervan. This is joint work with Harold Blum and Chuyu Zhou.

Slope of fibred surfaces and its application.

吕鑫

Abstract: For a fibred surface $f: S \to C$, its slope λ_f is heavily related to the geometrical properties of both the fibers of f and the surface S itself. In this talk, I will report joint work with K. Zuo on the lower bound of the slope, and its application.

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Representation of G1T-modules and affine Springer fibres

单芃

Abstract: G1T-modules is an important family of objects in the study of modular representations of algebraic groups. We will explain some links between the centre of their representation categories to the cohomology of some affine Springer fibres. Joint work with Eric Vasserot.

Local global principles over function fields

田志宇

Abstract: Given a variety defined over a number field or the function field of an algebraic curve, local global principles try to characterize the set of rational points inside the set of adelic points. I will talk about some recent results about local global principles over function fields of a curve using geometric methods.

Invariants of Calabi-Yau categories

涂君武

Abstract： We clarify some of the details in Costello's definition of Gromov-Witten type invariants associated to Calabi-Yau A-infinity categories, using Kontsevich-Soibelman's PROP-action of ribbon graphs on Hochschild chain complexes. This combinatorial approach makes the definition completely explicit and even computable in certain cases. In particular，when applied to the bounded derived category of coherent sheaves, we obtain invariants of smooth projective Calabi-Yau manifolds, conjecturally mirror to Gromov-Witten/FJRW theory.
This is a joint work in progress with Andrei Caldararu.

On the ampleness of the cotangent bundles of complete intersections

谢松晏

Abstract: We present the proof of the {\sl Debarre Ampleness Conjecture:} {\em The cotangent bundle Ω_X of the intersection $X=H_1 \cap\cdots \cap H_c$ of $c \geqslant N/2$ generic hypersurfaces $H_i\subset \mathbb{ P}_{\mathbb{C}}^N$ of high degrees $d_1, \dots, d_c \gg 1$ is ample}.

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K-moduli of Fano varieties

许晨阳

Abstract: In the last a few years, there is a tremendous progress in people's understanding of K-stability of Fano varieties. One guiding question is the construction of K-moduli for Fano varieties, i.e. a projective moduli space which precisely parametrises all K-polystable Fano varieties with given numerical invariants. I will discuss the progress made by people and the remaining unknown part of this question.

Fundamental Gerbes and their Representations

张磊

Abstract: In this talk I will first introduce the technique of Tannakian categories and its beautiful geometric interpretation, namely the affine gerbes. Then as an example, I will introduce the Nori fundamental gerbes due to F. Tonini and me.

Relative Severi inequality for fibrations of maximal Albanese dimension

张通

Abstract：Severi inequality is a comparison between two fundamental birational invariants: the canonical volume and the Euler characteristic, of a variety of maximal Albanese dimension. In this talk, a relative Severi inequality will be introduced. That is, we establish a new inequality about the relative canonical volume and the relative Euler characteristic of a fibration of maximal Albanese dimension. This is a joint work with Yong Hu.

多复变与代数几何：联系与进展

周向宇

Abstract：本演讲将强调多复变与代数几何的深刻联系，并介绍近期一些进展。

博士生报告

A note on a smooth projective surface with Picard number 2

李思辰

华东师范大学

Abstract: We characterize the integral Zariski decomposition of a smooth projective surface with Picard number 2 to partially solve a problem of B. Harbourne, P. Pokora, and H. Tutaj-Gasinska [Electron. Res. Announc. Math. Sci. 22 (2015), 103--108].

包含局部刚性 Fano 除子的 Fano 流形

刘杰

中科院

Abstract： 我们考虑如下的偶对(X,A)的分类，其中 X 是一个 Fano 流形，A 是 X 的一个除子并且其自身是一个具有 Picard 数 1 的局部刚性 Fano 流形。我们将在两种特殊情形下给出这样的偶对的分类：其一为 A 同构于某有理齐性空间且 A 为一例子除子，其二为 A 同构于某齐性空间中的光滑完全交且 A 是 X 上的丰沛除子。

one spherical metrics on Riemann surfaces

宋基建

天津大学

Abstract： A cone spherical metric on a compact Riemann surface X is a conformal metric of constant curvature $+1$ with finitely many conical singularities. The singularities of the metric can be described by a real divisor D. An open question called Picard-Poincar\'e problem is whether there exists a cone spherical metric for properly given (X, D) such that the singularities of the metric are described by the divisor D. In this talk, I will report an existence result of meromorphic 1-forms with real periods on Riemann surface and an angle constraints for reducible metrics on the Riemann sphere. For the irreducible metrics, by using projective structures, we prove that if D is effective, then they always can be obtained from rank 2 stable vector bundles with line subbundles. At last, I will talk about how to construct a special class of cone spherical metrics by Strebel differentials. This is a joint work with Bo Li, Lingguang Li and Bin Xu.

On projective 4-folds of general type with the geometric genus greater than 1

闫剑诗

复旦大学

Abstract： We show that for nonsingular projective 4-folds V of general type with the geometric genus $p_g>1$, φ_{33} is birational onto the image and the canonical volume Vol(V) has the lower bound $\frac{1}{620}$. This is a joint work with Meng Chen.

Classification of Symplectic Automorphism Groups of Smooth Cubic Fourfolds

郑志伟

清华大学

Abstract: Cubic fourfold is an intensively studied object in algebraic geometry, with close relations to hyper-Kahler geometry. In this talk I will report a recent work with Radu Laza on a classification of all groups of symplectic automorphisms of smooth cubic fourfolds. The main inputs are the global Torelli theorem for cubic fourfolds and the classification of the fixed-point sublattices of the Leech lattice. Among the highlights of our results, we note that there are exactly 34 possible groups of symplectic automorphisms, with 6 maximal cases, and all the groups are subgroups of the Conway group.

Optimal destabilization of K-unstable Fano varieties via stability threshold.

周楚宇

北京大学

Abstract: The concept twisted K-stability is originally introduced by R. Dervan in analytic side. In this talk, I will introduce an algebraic approach to twisted K-stability for K-unstable Fano varieties. Then we explain that it also admits a good special test configuration theory parallel to that of K-stability developed by Chi Li and Chenyang Xu. As applications, I will give a special approximation result for δ invariant, and show that δ invariant of the degeneration induced by divisorial δ minimizer won't jump down. This is a joint work with H.Blum and Yuchen Liu.

Campus and Hotel Map
校园及酒店地图

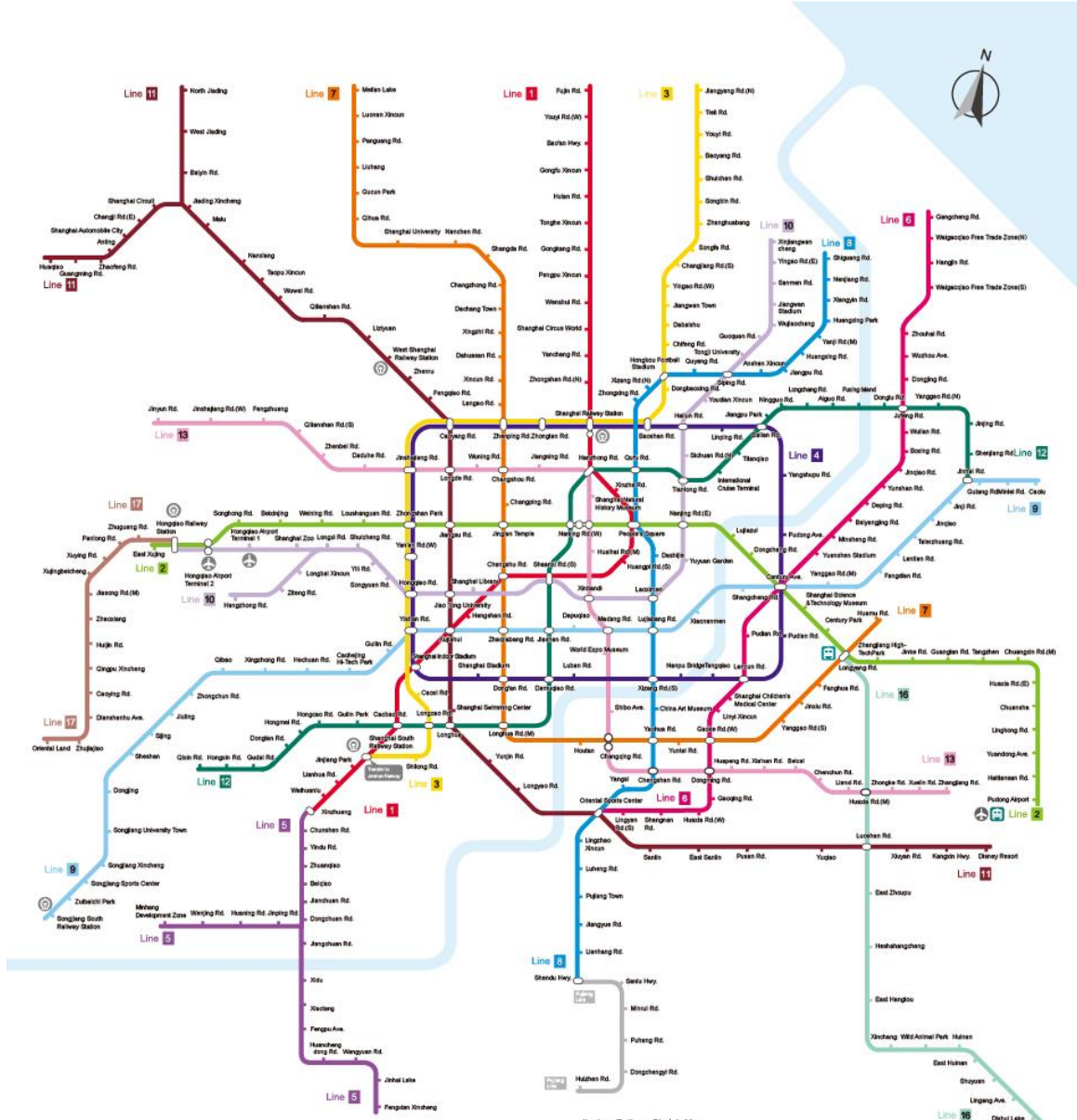**会场地址：** 华东师范大学教师之家三楼报告厅（上海市闵行区虹梅南路 5858 号）

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（4） 上海海舟大酒店
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Transportation
交通信息

- **Maps of Shanghai Metro**
  上海轨道交通示意图

SHANGHAI METRO
NETWORK MAP

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- **Routine from Airport to ECNU**
  公共交通推荐路线：

一、从上海虹桥火车站/虹桥机场到华东师范大学闵行校区：

1. 乘坐公交虹桥枢纽 4 路至东川路莲花南路站，随后步行 800 米至华东师范大学闵行校区数学楼。

2. 乘坐地铁到东川路站(地铁 2 号线(虹桥火车站/虹桥机场往中山公园)-换乘地铁 3 号线（往上海南站）-换乘地铁 1 号线（往莘庄）-换乘地铁 5 号线（往东川路)），再乘坐公交江川 3 路至莲花南路华东师大站。

二、从上海火车站到华东师范大学闵行校区：

1. 乘坐地铁到东川路站（地铁 1 号线（上海火车站往莘庄）-换乘地铁 5 号线（往东川路)）， 随后换乘公交江川 3 路至莲花南路华东师大站。

三、上海南站到华东师范大学闵行校区：

1. 乘坐地铁到东川路站（地铁 1 号线（上海南站往莘庄）-换乘地铁 5 号线（往东川路)），随后换乘公交江川 3 路至莲花南路华东师大站。

2. 乘坐公交 180 路，从上海南站至莲花南路东川路站。

四、从上海浦东机场到华东师范大学闵行校区：

1. 乘坐地铁到东川路站（地铁 2 号线（浦东机场往人民广场）-换乘地铁 1 号线（往莘庄）-换乘地铁 5 号线（往东川路)），随后换乘公交江川 3 路至莲花南路华东师大站。

2. 乘坐地铁到沈杜公路站（地铁 2 号线（浦东机场往龙阳路）-换乘地铁 7 号线（往耀华路）-换乘地铁 8 号线（往沈杜公路)）， 随后换乘公交闵行 38 路至莲花南路东川路站。

五、出租车指导价格：

1. 从上海虹桥火车站/虹桥机场到华东师范大学闵行校区：约 100 元人民币；

2. 从上海火车站到华东师范大学闵行校区：约 120 元人民币；

3. 从上海南站到华东师范大学闵行校区：约 60 元人民币；

4. 从上海浦东机场到华东师范大学闵行校区：约 180 元人民币。

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