Workshop on Variational Methods and Nonlinear Elliptic Equations

Conference Program

Academy of Mathematics and Systems Science,

Chinese Academy of Sciences

School of Mathematics and Statistics,

Central China Normal University

September 21 - September 26, 2025

Workshop on Variational Methods and Nonlinear Elliptic Equations

In order to promote the exchange of the latest research progress and achievements in the field of variational methods and nonlinear elliptic equations, "Seminar on Variational Methods and Nonlinear Elliptic Equations" will be held from September 21 to September 26, 2025 at Kunming Tianyuan Mathematics International Exchange Center in China. The purpose of this symposium is to invite scholars at home and abroad who are interested in variational methods and nonlinear elliptic equations to gather together, and to conduct extensive and in-depth exchanges on the cutting-edge methods and theories, latest developments and future trends of variational methods and nonlinear elliptic equations and related fields through keynote reports and intensive discussions, so as to jointly discuss and promote the further development of variational methods and nonlinear elliptic equations.

The relevant matters of the seminar are as follows:

1. **Conference time:** September 21 to September 26, 2025, registration on September 21 (Sunday), academic reports from September 22 to September 25, in addition academic exchange and departure on September 26.
2. **Venue:** Tianyuan Mathematics International Exchange Center (Yiliang County, Kunming City, Yunnan Province).
3. **Note:** There is no registration fee for this conference, and Tian Yuan Mathematics International Exchange Center will provide free catering and accommodation, and participants will pay for their own transportation expenses.
4. **Convener:** Cao Daomin (Academy of Mathematics and Systems Science, Chinese Academy of Sciences, China), Peng Shuangjie (Central China Normal University, China), Yan Shusen (Central China Normal University, China)
5. **Contact:** Luo Peng (Central China Normal University, China),

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Brief Conference Schedule

<table>
<tr><td>Date</td><td colspan="2">September 22 (Monday)</td></tr>
<tr><td>9:00 - 9:20</td><td colspan="2">Opening ceremony of the conference & Group photo session</td></tr>
<tr><td colspan="3">Report schedule</td></tr>
<tr><td>Time</td><td>Speaker</td><td>Chairman</td></tr>
<tr><td>9:20 - 10:05</td><td>Juncheng Wei</td><td rowspan="2">Daomin Cao</td></tr>
<tr><td>10:10 - 10:55</td><td>Bernhard Ruf</td></tr>
<tr><td>11:00 - 11:45</td><td>Xinan Ma</td><td>Shuangjie Peng</td></tr>
<tr><td>12:00 - 14:00</td><td colspan="2">Lunch</td></tr>
<tr><td>14:30 - 15:15</td><td>Wei Dai</td><td rowspan="2">Xiangqing Liu</td></tr>
<tr><td>15:20 - 16:05</td><td>Weiwei Ao</td></tr>
<tr><td>16:10 - 16:30</td><td colspan="2">Coffee break</td></tr>
<tr><td>16:30 - 17:15</td><td>Benniao Li</td><td>Chunhua Wang</td></tr>
<tr><td>18:00 - 20:00</td><td colspan="2">Dinner</td></tr>
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Date	September 23 (Tuesday)	
Time	Speaker	Chairman
9:00 - 9:45	Xiao Zhong	Shusen Yan
9:50 - 10:35	Angela Pistoia	
10:40 - 11:00	Coffee break	
11:00 - 11:45	Massimo Grossi	Jianfu Yang
12:00 - 14:00	Lunch	
14:30 - 15:15	Yeyao Hu	Wei Long
15:20 - 16:05	Yiming Su	
16:10 - 16:30	Coffee break	
16:30 - 17:15	Yuanze Wu	Zhongyuan Liu
18:00 - 20:00	Dinner	

Date	September 24 (Wednesday)	
Time	Speaker	Chairman
9:00 - 9:45	Kelei Wang	Huansong Zhou
9:50 - 10:35	Seunghyeok Kim	
10:40 - 11:00	Coffee break	
11:00 - 11:45	Zhijie Chen	Feng Zhou
12:00 - 14:00	Lunch	
14:30 - 17:30	Free activity	
18:00 - 20:00	Dinner	

Date	September 25 (Thursday)	
Time	Speaker	Chairman
9:00 - 9:45	Jiayu Li	Zongming Guo

9:50 - 10:35	Francesca Gladiali	
10:40 - 11:00	Coffee break	
11:00 - 11:45	Isabella Ianni	Yuxia Guo
12:00 - 14:00	Lunch	
14:30 - 15:15	Qing Guo	Guolin Qin
15:20 - 16:05	Haixia Chen	
16:10 - 16:30	Coffee break	
16:30 - 17:15	Guodong Wang	Peng Luo
17:20 - 17:35	Closing ceremony address	
18:00 - 20:00	Dinner	

September 26 (Friday) AM	
9:00 - 10:00	Free discussion and leaving the meeting

Report Schedule

<table>
<tr><td colspan="4">September 22 AM</td></tr>
<tr><td>9:00 - 9:20</td><td colspan="3">Opening ceremony of the conference & Group photo session</td></tr>
<tr><td>Time</td><td colspan="2">Report content</td><td>Chairman</td></tr>
<tr><td rowspan="2">9:20 - 10:05</td><td>Speaker</td><td>Juncheng Wei</td><td rowspan="4">Daomin Cao</td></tr>
<tr><td>Title</td><td>On Brezis' two open problems</td></tr>
<tr><td rowspan="2">10:10 - 10:55</td><td>Speaker</td><td>Bernhard Ruf</td></tr>
<tr><td>Title</td><td>Singular solutions of elliptic equations with exponential nonlinearities in R^2: existence and relevance for related</td></tr>
<tr><td rowspan="2">11:00 - 11:45</td><td>Speaker</td><td>Xinan Ma</td><td rowspan="2">Shuangjie Peng</td></tr>
<tr><td>Title</td><td>Vector field method for fourth-order elliptical partial differential equations</td></tr>
<tr><td>12:00 - 14:00</td><td colspan="3">Lunch</td></tr>
<tr><td colspan="4">September 22 PM</td></tr>
<tr><td colspan="2">Time</td><td>Report content</td><td>Chairman</td></tr>
<tr><td rowspan="2">14:30 - 15:15</td><td>Speaker</td><td>Wei Dai</td><td rowspan="2">Xiangqing Liu</td></tr>
<tr><td>Title</td><td>Classification of solutions to critical quasilinear elliptic equations</td></tr>
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15:20 - 16:05	Speaker	Weiwei Ao	
	Title	On bubbling solutions of the Maxwell-Chern-Simons system	
16:10 - 16:30	Coffee break		
16:30 - 17:15	Speaker	Benniao Li	Chunhua Wang
	Title	Clustering peak solutions for Schrodinger systems with saddle-point potentials	
18:00 - 20:00	Dinner		

September 23 AM			
Time	Report content		Chairman
9:00 - 9:45	Speaker	Xiao Zhong	Shusen Yan
	Title	Variational problems with gradient constraints	
9:50 - 10:35	Speaker	Angela Pistoia	
	Title	Sign-changing solutions for critical Hamiltonian systems	
10:40 - 11:00	Coffee break		
11:00 - 11:45	Speaker	Massimo Grossi	Jianfu Yang
	Title	Critical points of the Kirchhoff-Routh function in domains with small holes	
12:00 - 14:00	Lunch		

September 23 PM			
Time	Report content		Chairman
14:30 - 15:15	Speaker	Yeyao Hu	Wei Long
	Title	Blow-up configurations and self-organized patterns in Elliptic PDEs	
15:20 - 16:05	Speaker	Yiming Su	
	Title	On multi solitary waves to nonlinear Schrodinger equations	
16:10 - 16:30	Coffee break		
16:30 - 17:15	Speaker	Yuanze Wu	Zhongyuan Liu
	Title	On Brezis-Nirenberg problems: open questions and new results in low dimensions	
18:00 - 20:00	Dinner		

September 24 AM			
Time	Report content		Chairman
9:00 - 9:45	Speaker	Kelei Wang	Huansong Zhou
	Title	A reduction approach to bubbling analysis for Yamabe type equations	
9:50 - 10:35	Speaker	Seunghyeok Kim	
	Title	Compactness and non-compactness theorems of the fourth-order and sixth-order constant Q-curvature problems	

10:40 - 11:00	Coffee break		
11:00 - 11:45	Speaker	Zhijie Chen	Feng Zhou
	Title	Mean field equations and Green functions on torus, and Lame equations	
12:00 - 14:00	Lunch		
14:30 - 17:30	Free activity		
18:00 - 20:00	Dinner		

September 25 AM			
Time	Report content		Chairman
9:00 - 9:45	Speaker	Jiayu Li	Zongming Guo
	Title	The non-existence of solitary solutions for the mean curvature flow	
9:50 - 10:35	Speaker	Francesca Gladiali	
	Title	Solutions with many critical points on nearly geodesically convex domains	
10:40 - 11:00	Coffee break		
11:00 - 11:45	Speaker	Isabella Ianni	Yuxia Guo
	Title	New solutions for the planar Lane-Emden problem	
12:00 - 14:00	Lunch		

September 25 PM			
Time	Report content		Chairman
14:30 - 15:15	Speaker	Qing Guo	Guolin Qin
	Title	Segregated solutions for sublinearly coupled NLS	
15:20 - 16:05	Speaker	Haixia Chen	
	Title	Quantitative stability estimates for the Yamabe Problem and the Brezis-Nirenberg problem	
16:10 - 16:30	Coffee break		
16:30 - 17:15	Speaker	Guodong Wang	Peng Luo
	Title	Orbital stability of first Laplacian eigenstates for the Euler equation on flat 2-tori	
17:20 - 17:35	Closing ceremony address		
18:00 - 20:00	Dinner		

September 26 AM	
9:00 - 12:00	Free discussion and leaving the meeting

Report Abstract

(Sorted by surname in alphabetical order)

On bubbling solutions of the Maxwell-Chern-Simons system

Weiwei Ao (Wuhan University)

Abstract: We will talk about the Maxwell-Chern-Simons model on flat torus. We consider the Chern-Simons limit case and derive a Brezis-Merle type alternative results. For the bubbling solutions, we derive the non co-existence of different blow up profile, and also construct bubbling solutions. This is joint work with Youngae Lee, Xiaoyan Lin and Ohsang Kwon.

Quantitative stability estimates for the Yamabe problem and the Brezis-Nirenberg problem

Haixia Chen (Hanyang University)

Abstract: In this talk, we present our recent progress on quantitative stability estimates for two classical problems: the Yamabe problem and the Brezis-Nirenberg problem. Motivated by earlier works of Ciraolo-Figalli-Maggi (IMRN 2018), Figalli-Glaudo (ARMA 2020), and Deng-Sun-Wei (DUKE 2025), we establish quantitative stability estimates for the Sobolev inequality on smooth closed manifolds (M, g) and bounded domains Ω. Compared with the Euclidean case, our results reveal new and unexpected stability exponents. The stability function depends delicately on the solution u_0, the interaction of multiple bubbles, and the metric g for the Yamabe problem(boundary effects of Ω, and the linear term λu in the Brezis-Nirenberg problem). We will outline the backgrounds, state the main theorems, highlight the novel aspects of our proofs.

Mean field equations and Green functions on torus, and Lame equations

Zhijie Chen (Tsinghua University)

Abstract: I will talk about mean field equations on torus, introduce its deep connections with the Green function on torus and the Lame equation from integrable systems.

Classification of solutions to critical quasilinear elliptic equations

Wei Dai (Beihang University)

Abstract: In this report, we aim to talk about some recent results on the classification of solutions to critical quasilinear elliptic equations. These classification results are usually related to sharp geometric inequalities and their best constants.

Solutions with many critical points on nearly geodesically convex domains

Francesca Gladiali (University of Sassari)

Abstract: Given a complete d-dimensional Riemannian manifold (M, g) I will prove that, for any p ∈M, any nonlinearity f (q, u) with f (p, 0) > 0 and for any integer n ≥2, there exists a sequence of smooth bounded domains Ω_k ⊂M containing p and corresponding positive solutions u_k : Ω_k →R^+ to the Dirichlet boundary problem

−Δ_g u_k = f (·, u_k) in Ω_k , u_k = 0 on ∂Ω_k. such that the solution u_k have exactly 2n−1 nondegenerate critical points in Ω_k (specifically, n nondegenerate maxima and n−1 nondegenerate saddles). Moreover the domains Ω_k are star-shaped with respect to p and become “nearly geodesically convex”, in a precise sense, as k →+∞. The proof relies on similar results in R^d, d ≥2, for the torsion problem.

The talk is based on past and ongoing results involving A. Enciso, M. Grossi and L. Provenzano.

Critical points of the Kirchhoff-Routh function in domains with small holes

Massimo Grossi (Sspienza University of Rome)

Abstract: In this talk we will study the number of critical points (as well as their stability) of the Robin and Kirchhoff-Routh functions. As is well known, this study is related to the concentration properties of semilinear elliptic problems.

Segregated solutions for sublinearly coupled NLS

Qing Guo (Minzu University of China)

Abstract: In this talk, we apply an enhanced Lyapunov-Schmidt reduction to a class of nonlinear Schrodinger systems with sublinear coupling. The nonsmooth structure makes classical reductions ineffective for establishing segregated solutions. To overcome this, we reformulate the procedure as a fixed-point problem on a suitably constructed metric space based on a tail minimization procedure. Inspired by variational gluing techniques, we reduce the analysis to a finite-dimensional setting by use of sharp a priori estimates. In the sublinear regime, we also reveal a new phenomenon: the solutions develop a distinct dead core behavior, marked by non-strict positivity. The work presented here is joint with Chengxiang Zhang.

Blow-up configurations and self-organized patterns in Elliptic PDEs

Yeyao Hu (Central South University)

Abstract: Self-organized vortex-type patterns are well documented in a wide range of PDE models, such as diblock copolymer theory, reactiondiffusion systems, and, more recently, mean field equations. A unifying framework for these problems is provided by Kirchhoff-Routh type interaction energies. In this talk, we study a prototypical two-dimensional energy functional defined on the unit disk, involving both boundary vortices and interior vortices. We establish the existence and qualitative properties of minimizing configurations in the case of a single interior vortex coupled with a small number of boundary vortices. In addition, we investigate the limiting variational problem as the number of vortices on the boundary tends to infinity, and describe the corresponding asymptotic distribution.

New solutions for the planar Lane-Emden problem

Isabella Ianni (Sapienza University of Rome)

Abstract: We consider a Lane-Emden problem in a smooth bounded domain. When the

exponent p of the nonlinearity is large, the existence and multiplicity of solutions strongly depend on the geometric properties of the domain, which also deeply affect their qualitative behaviour. Remarkably, a wide variety of solutions, both positive and sign-changing, have been found when p is sufficiently large. In this talk, we focus on this topic and find new sign-changing solutions that exhibit an unexpected concentration phenomenon as p approaches infinity.

Compactness and non-compactness theorems of the fourth-order and sixth-order constant Q-curvature problems

Seunghyeok Kim (Hanyang University)

Abstract: We provide a complete resolution to the question of compactness for the full solution sets of the fourth-order and sixth-order constant Q-curvature problems on smooth closed Riemannian manifolds, provided the associated conformally covariant differential operator has a positive Green's function. Firstly, we prove that the solution set of the fourth-order constant Q-curvature problem is C^4-compact in dimensions $5 \le n \le 24$. For $n \ge 25$, an example of an L^∞-unbounded sequence of solutions has been known for over a decade. Secondly, we demonstrate that the solution set of the sixth-order constant Q-curvature problem is C^6-compact in dimensions $7 \le n \le 26$, whereas a blow-up example exists for $n \ge 27$. Our principal observation is that the linearized equations associated with the Q-curvature problems can be transformed into overdetermined linear systems, which admit nontrivial solutions due to unexpected algebraic structures of the Paneitz operator and the sixth-order GJMS operator. This key insight not only plays a crucial role in deducing the compactness result for high-dimensional manifolds, but also reveals an elegant hierarchical pattern with respect to the order of the conformally covariant operators, suggesting the possibility of a unified theory of the compactness of the constant Q-curvature problems of all even integer orders.

This is a joint work with Liuwei Gong and Juncheng Wei (The Chinese University of Hong Kong).

Clustering peak solutions for Schrodinger systems with saddle-point potentials

Benniao Li (Jiangxi Normal University)

Abstract: In this talk, I will introduce the following nonlinear Schrodinger system

$\begin{cases} -\varepsilon^2\Delta u + V_1(x)u = \mu_1 u^3 + \beta u v^2 & \text{in } \mathbb{R}^3, \\ -\varepsilon^2\Delta v + V_2(x)v = \mu_2 v^3 + \beta u^2 v & \text{in } \mathbb{R}^3, \end{cases}$ where $\varepsilon > 0$ is a small parameter, μ_1, μ_2 are two positive constants, $\beta \neq 0$ is a coupling constant, and $V_1(x), V_2(x)$ are positive potentials. Applying Lyapunov-Schmidt reduction method and topological degree theory, we show the existence of clustering peak solutions concentrating at saddle points of $V_1 + \frac{\mu_1 - \beta}{\mu_2 - \beta} V_2$. Notably, the characteristics of energy functionals exhibit significant differences between the saddle point case and the local maximum case, and thus a series of subtle difficulties arise. Moreover, we also prove the non-existence of clustering peak solutions with all peaks concentrating at local minimum points of $V_1 + \frac{\mu_1 - \beta}{\mu_2 - \beta} V_2$. This talk is based on the joint work with Yuke He, Wei Long and Weilin Yu.

The non-existence of solitary solutions for the mean curvature flow

Jiayu Li (University of Science and Technology of China)

Abstract: We will introduce the basic properties of the symplectic mean curvature flow. Then we will prove the Bernstein-type theorem for the translation of solitons under the symplectic mean curvature flow, which is recent work in collaboration with Han Xiaoli and Sun Jun.

Vector field method for fourth-order elliptical partial differential equations

Xinan Ma (University of Science and Technology of China)

Abstract: A powerful tool for the a priori estimates of elliptic partial differential equations is the energy method, which is the vector field method. Inspired by geometric problem studies such as Bochner techniques and Obata methods, the vector field method for elliptic partial differential equations has been applied since the 1970s to various equations, such as Gidas-Spruck's work in the 1980s using it to study second-order semilinear elliptic equations. For subelliptic semilinear equations on the Heisenberg group, Jerison-Lee proposed a method in 1988 using a computer program to find vector fields, and recently (2023, Ma-Ou-Wu), there has been work on finding vector fields on general Cauchy-Riemann manifolds for subelliptic semilinear equations without the aid of computer programs and their applications in related Sobolev inequalities. In this report, I will introduce the method of finding vector fields for fourth-order elliptic equations and the uniqueness of solutions and related inequalities applied to fourth-order elliptic equations on manifolds. In particular, one of its corollaries provides a new proof of the Liouville theorem regarding bi-harmonic semilinear elliptic equations obtained by Lin Changshou in 1998 (CMH) using the moving plane method. This is a collaborative work with Wu Tian, Wu Wangzhe, Zhou Xiao, and others.

Sign-changing solutions for critical Hamiltonian systems

Angela Pistoia (Sapienza University of Rome)

Abstract: We build infinitely many geometrically distinct non-radial sign-changing solutions for the Hamiltonian-type elliptic systems

$$\begin{cases} -\Delta u = |v|^{p-1} v \text{ in } \mathbb{R}^n, \\ -\Delta v = |u|^{q-1} u \text{ in } \mathbb{R}^n, \end{cases}$$

where the exponents (p,q) satisfy p,q>1 and belong to the critical hyperbola $\frac{1}{p+1}+\frac{1}{q+1}=\frac{n-2}{n}$. The result is obtained in collaboration with Yuxia Guo (Tsinghua University), Seunghyeok Kim (Hanyang University)and Shusen Yan (Central China Normal University).

Singular solutions of elliptic equations with exponential nonlinearities in R^2 : existence and relevance for related parabolic equations

Bernhard Ruf (Lombard Institute, Academy of Sciences and Letters)

Abstract: We consider singular solutions for elliptic equations with exponential nonlinearities in two dimensions. Beside weak H1 -solutions (which can be found variationally and are in fact regular), elliptic equations with exponential nonlinearities admit also singular solutions. They are distributional solutions which lie just barely outside of the space H1 (and hence are not weak solutions). We discuss the construction of such solutions, and then show that they give rise to non-uniqueness for the associated heat equation.

On multi solitary waves to nonlinear Schrodinger equations

Yiming Su (Hangzhou Normal University)

Abstract: In this talk, we will discuss the construction and classification of multi solitary wave solutions to nonlinear Schrodinger equations. First we provide a short survey on this subject. Then we also introduce some of our recent process on the study of the deterministic and stochastic nonlinear Schrodinger equations.

Orbital stability of first Laplacian eigenstates for the Euler equation on flat 2-tori

Guodong Wang (Dalian University of Technology)

Abstract: On a flat 2-torus, the Laplacian eigenfunctions can be expressed in terms of sinusoidal functions. For a rectangular or square torus, it is known that every first eigenstate is orbitally stable up to translation under the Euler dynamics. In this talk, we show that this is also true for flat tori of arbitrary shape. As a corollary, we obtain for the first time a family of orbitally stable sinusoidal Euler flows on a hexagonal torus. The proof is carried out within the framework of Burton's stability criterion and consists of two key ingredients: (i) establishing a suitable variational characterization for each equimeasurable class in the first eigenspace, and (ii) analyzing the number of translational orbits within each equimeasurable class.

A reduction approach to bubbling analysis for Yamabe type equations

Kelei Wang (Wuhan University)

Abstract: For Yamabe type equations with critical Sobolev exponent, Struwes global compactness theorem gives a decomposition of solutions into bubbles in the H^1 space. There are many subsequent works (especially those related to the study of Schoens compactness conjecture) improving this decomposition to higher order levels, e.g. in C^0 spaces. In this talk I will discuss an approach to this problem via the reverse Lyapunov-Schmidt reduction method. This is based on a joint work with Linlin Dou and Bin Deng.

On Brezis' two open problems

Juncheng Wei (The Chinese University of Hong Kong)

Abstract: In this talk, we gave a complete answer to Brezis' first open problem (Problem 1.1) on Brezis-Nirenberg problem in a three-dimensional ball, and a partial answer to the fifth open problem (Problem 3.1) on harmonic maps.

On Brezis-Nirenberg problems: open questions and new results in low dimensions

Yuanze Wu (Yunnan Normal University)

Abstract: In this talk, we shall discuss the Brezis-Nirenberg problem in general bounded domains. We first recall the history of the Brezis-Nirenberg problem and then provide new results of it in low dimensions. Finally, we also list some open questions on the Brezis-Nirenberg problem. This talk is based on the recent works joint with Fengliu Li, Giusi Vaira and Juncheng Wei.

Variational problems with gradient constraints

Xiao Zhong (Sun Yat-sen University)

Abstract: I will talk about three different types of variational problems with gradient constraints. They arise from elastic-plastic tortion, hypersurfaces in the Lorentz-Minkowski spaces with given mean curvature and dimer models.

Workshop on Variational Methods and Nonlinear Elliptic Equations

Attendee List

(Sorted by surname in alphabetical order)

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