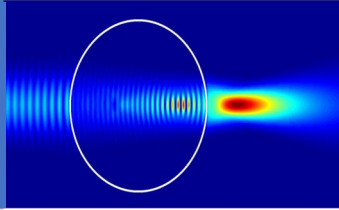




The 14<sup>th</sup> International Conference on  
Laser-light and Interactions with Particles (LIP2024)  
September 18-22<sup>nd</sup>, 2024, Xi'an, Shaanxi, China



LIP2024  
September 18-22<sup>nd</sup>, 2024  
Xi'an, Shaanxi, China



## Registration

The conference fees are expected to be in ranges:

	Early	Late
Student (Master, PhD)	200USD/1400RMB	240USD/1700RMB
Academic/Industry	350USD/2400RMB	400USD/2800RMB
Accompanying person	100USD/700RMB	150USD/1000RMB

The registrations fees include: the Conference attendance, booklet of the conference abstracts, lunches, coffee breaks and social events.

## Venue and accommodation

The conference venue is the Conference Center, North Campus, Xidian University . It is located in the Yanta district, within 45 minutes by car or bus from "Xianyang Airport" .

The accommodation is Xi'an Ziction Liberal hotel, which is a four-star foreign affair-related business hotel, and is located in New century Square of Hi-Tech Development Zone. Airport shuttle bus starting and terminating stations located on hotel parking area. The nearest Subway station away from hotel 50 meters only.

## Important dates

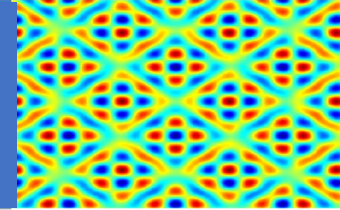
Abstract submission opens .....May 1st, 2023  
Abstract submission ends.....April 30th, 2024  
Notification of abstract acceptance.....May 20th, 2024  
Early/Late registrations .....May 20th, 2024  
Late registration after.....August 1st, 2024



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## Conference Chairs\* & Conveners

Guo Lixin\*, School of Physics, Xidian University, China.  
Han Yiping\*, School of Physics, Xidian University, China.  
Fabrice Onofri, IUSTI, CNRS, Marseille, France.  
G rard Gouesbet, CORIA, INSA de Rouen, France.

## Secretariat and web site of the conference:

Wang Jiajie, School of Physics, Xidian University, China  
Li Renxian, School of Physics, Xidian University, China  
Cheng Mingjian, School of Physics, Xidian University, China  
Duan Qinwei, School of Physics, Xidian University, China

Email for the conference: [contact@lip-conference.org](mailto:contact@lip-conference.org)

Web site of the conference: [www.lip-conference.org](http://www.lip-conference.org)

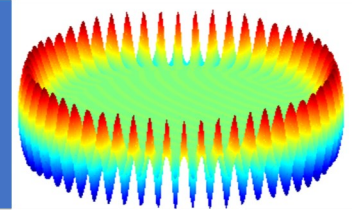
## Host institution, sponsors & partners (April 2023):



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## Second Announcement

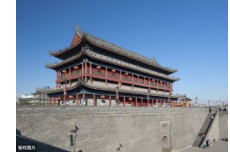
14th International Conference  
Series on

## "Laser-light and Interactions with Particles"

In memory of Prof. James Albert Lock (1948-2023): A life of honor  
and work of excellence

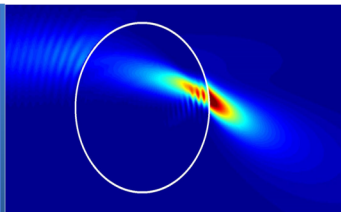


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## Background and Scope

For more than three decades this conference series has promoted state-of-the-art research and scientific exchange on laser-beams and interactions with particles and particle systems. The present edition follows the former Optical Particle Sizing (OPS) and Characterization (OPC) conferences held in Rouen 1987; Tempe, 1990; Yokohama, 1993; Nürnberg, 1995; Minneapolis, 1998; Brighton, 2001; Kyoto, 2004; Graz, 2007 as well as the reformulated Laser-light and Particle Interactions (LIP) conference held in Rouen in 2012; Marseille, 2014; Xi'an, 2016; College Station (TX), 2018; Warsaw, 2022. **The LIP2024 is dedicated to the memory of Prof. James Albert Lock (1948-2023): A life of honor and work of excellence.**

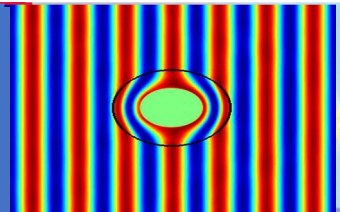
Papers, ranging from **theory to practice**, are invited with particular emphasis being placed on the following topics:

- Beam shape description of laser/electromagnetic wave
- Optical forces and other mechanical effects of light
- Light/laser/electromagnetic scattering of complex particles and aggregates
- Optical particle sizing and characterization methods
- Light/electromagnetic wave propagation in complex media
- Optical imaging with structured illumination (tissue, particles,...)
- AI-assisted analysis in light/electromagnetic scattering
- Applications of light scattering methods in biology and biomedicine
- Applications of light scattering methods in multiphase flow, nanoscience, plasma and soft matter physics, aerosol science and atmospheric environment

Fields of **application** may range from multiphase flow characterization, to plasma and soft matter physics, nanosciences, aerosol science and atmospheric environment,



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## Committees

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L. A. Ambrosio , University of Sao Paulo, USP, Brazil  
X.S. Cai , University of Shanghai for Science and Technology, Shanghai, China  
G. Gouesbet, CORIA, National Institute of Applied Sciences, Rouen, France  
D. Grier, Department of Physics and Center for Soft Matter Research, New-York University, New-York, USA  
Y.P. Han , School of Physics, Xidian University, Xidian, China  
J.A. Lock, Cleveland State University, Cleveland, OH, USA.  
P.L. Marston , Depart. Physics & Astronomy, Washington State University, USA  
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K. F. Ren , University of Rouen, Rouen, France  
G. Videen, Army Research Laboratory, Adelphi, MD, USA  
T. Wriedt , ITW, University of Bremen, Bremen, Germany  
J. J. Wang, School of Physics, Xidian University, Xi'an, China  
P. Yang , Dept. Atmospheric Sciences, Texas A&M University, College Station, TX, USA  
M. Yurkin, Voevodsky Inst. of Chem. Kinetics and Comb., Novosibirsk, Russia

**ADVISORY**

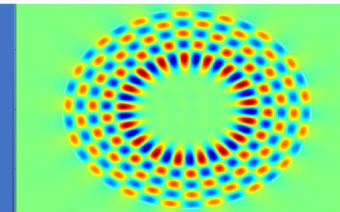
Y. Aizu, Muroran Institute of Technology, Muroran, Japan  
M. Berg, Kansas State University, Manhattan, KS, USA  
P. Briard, School of Physics, Xidian University, Xidian, China  
M. Brunel , Laser/particle(s) interaction, CORIA, Normandy University, Rouen, France  
Y.E. Geints, Zuev Institute of Atmospheric Optics, Russian Academy of Sciences, Tomsk, Russia  
D. Jakubczyk, Institut of Physics, Polish Academy of Sciences, Warsaw, Poland  
F. Lamadie, Atomic Energy and Alternative Energies Commission, Marcoule, France  
R. Li, School of Science, Xidian University, Xidian, China  
O. Maragò, IPCF, National Research Council, Messina, Italy  
F. G. Mitri, Chevron, Area 52 Technology, Santa Fe, NM, USA  
A.A.R. Neves, Federal University of ABC, Santo André, Brazil  
T. Nieminen , Dept. of Physics, University of Queensland Brisbane, Australia  
H.-H. Qiu , Dept. Mech. Engineering, Hong Kong University of Science & Technology, Kowloon, Hong Kong  
M. Šiler, Institute of Scientific Instruments of the ASCR, Brno, Czech Republic  
X.M. Sun, School of Electrical and Electronic Engineering, Shandong University of Technology, Zibo, China  
M.R. Vetrano, Department of Mechanical Engineering, KU Leuven, Leuven, Belgium  
S. Will, Friedrich-Alexander-Universität, Erlangen-Nürnberg, LTT, Erlangen, Germany  
Y. Wu, State Key Laboratory of Clean Energy Utilization, Zhejiang University, China  
F. Xu, The University of Oklahoma National Weather Center, Norman, USA

**CONVENERS**

Guo Lixin, School of Physics, Xidian University, China  
Han Yiping, School of Physics, Xidian University, China  
Gérard Gouesbet, CORIA, Nat. Inst. Appl. Sci., Rouen, France  
Fabrice Onofri, IUSTI, Nat. Center Sci. Rsrch (CNRS), Marseille, France



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**LOCAL**

Zhou Huixin, Vice Dean of School of Physics, Xidian University, China  
Wei Bing, Vice-Dean of School of Physics, Xidian University, China  
Han Xiang, Professor, School of Physics, Xidian University, China  
Bai Lu, Professor, School of Physics, Xidian University, China  
Gao Peng, Professor, School of Physics, Xidian University, China  
Li Jiangting, Professor, School of Physics, Xidian University, China  
Guo Tong, Director of Division of International Cooperation and Exchange, Xidian University, China  
Cui Zhiwei, A/Professor, School of Physics, Xidian University, China  
Paul Briard, A/Professor, School of Physics, Xidian University, China  
Lin Ke, A/Professor, School of Physics, Xidian University, China  
Li Haiying, A/Professor, School of Physics, Xidian University, China  
Li Zhengjun, A/Professor, School of Physics, Xidian University, China

## Keynotes Lectures

- (1) Prof. Vadim A Markel, University of Pennsylvania, USA
- (2) Prof. Jianqi Shen, University of Shanghai for science and Technology, China
- (3) Dr. Maxim Yurkin, Novosibirsk State University, Russia
- (4) Prof. Fabrice Onofri, Aix-Marseille University, France
- (5) Prof. Baoli Yao, Xi'an Institute of Optics and Precision Mechanics, China
- (6) Prof. Peng Gao, Xidian University, China
- (7) Prof. Igor Minin, Siberian State University of Geosystems and Technology, Russia
- (8) To be updated

## Instructions to authors

### Abstracts, presentations & proceedings

Three formats are planned for presentations: keynote lectures, oral presentations and posters. For the two latter, papers are invited on the topics outlined and others falling within the scope of the conference. To do so, authors are invited to send by email your extended abstract ([MS-Word file](#) plus a pdf) and the related information ([Excel file](#)) to the conference secretariat ([contact@lip-conference.org](mailto:contact@lip-conference.org)). Selection will be based on two independent reviews.

### Special issue

A special issue LIP2024 is also scheduled in the Journal of Quantitative Spectroscopy & Radiative Transfer.

