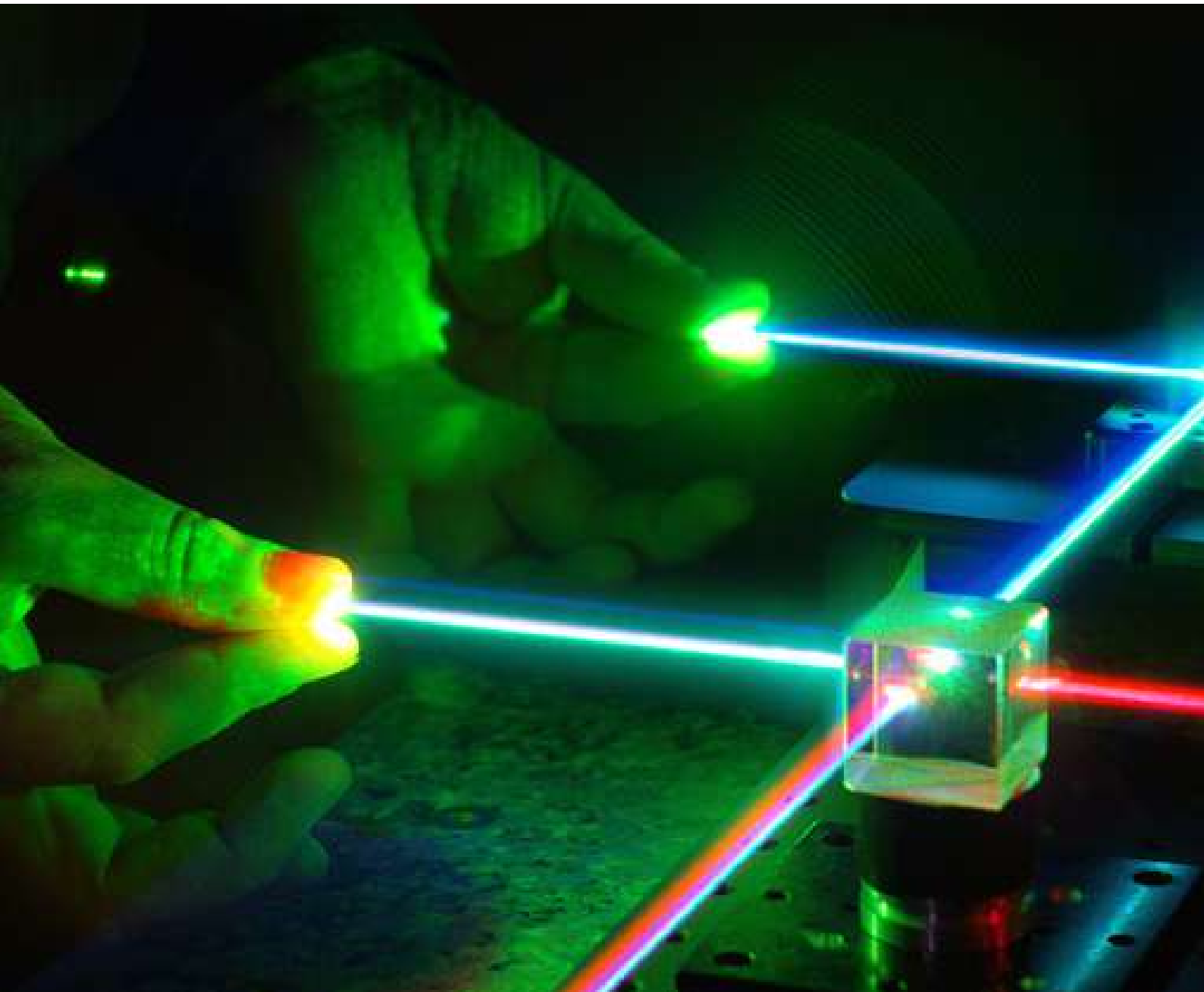


GLOBAL CONGRESS & EXPO ON

# ADVANCEMENTS OF LASER, OPTICS & PHOTONICS

VALENCIA, SPAIN - MARCH 25-27, 2019



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# GLOBAL CONGRESS & EXPO ON ADVANCEMENTS OF LASER, OPTICS & PHOTONICS 2019



## DAY 01

### KEYNOTE SESSIONS

DIETER H BIMBERG, GERMANY  
SANTIAGO ROYO, SPAIN  
ALEXANDER A ORAEVSKY, USA  
SLOT AVAILABLE  
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SLOT AVAILABLE  
SLOT AVAILABLE

### SPECIAL SESSION

MOHAMMED SAAD, USA  
ILYA YAROSLAVSKY, USA

### SHORT COURSE

RICARDO SAAD, USA

### ORAL SESSION

MATT KALINSKI, USA  
KONSTANTIN ZHURAVLEV, RUSSIA  
KONSTANTIN ZLOSHCHASTIEV, SOUTH AFRICA  
KONSTANTIN M GOLANT, RUSSIAN FEDERATION  
JIE LI, CHINA  
RAN CHEN, CANADA  
XIN (SCOTT) YIN, BELGIUM  
KONRAD ALTMANN, GERMANY  
WOLFGANG SCHADE, GERMANY  
AILING ZHANG, CHINA  
CRINA COJOCARU, SPAIN  
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SLOT AVAILABLE

## DAY 02

### KEYNOTE SESSIONS

JOSE MIGUEL LÓPEZ-HIGUERA, SPAIN  
MAXIM S. PSHENICHNIKOV, NETHERLANDS  
MANISH D KULKARNI, USA  
GERSHON KURIZKI, ISRAEL  
YOSSEF BEN EZRA  
AUREL YMETI  
**SLOT AVAILABLE**

### SPECIAL SESSION

BEKIR SAMI YILBAS, KSA  
CRINA COJOCARU, SPAIN

### SHORT COURSE

RICARDO SAAD, USA

### WORKSHOP SESSION

CHUNCHAO QI, CHINA

### ORAL SESSION

ZAMORA GÓMEZ, ALETHEA VANESSA, GERMANY  
FREDDY MONROY-RAMIREZ, COLOMBIA  
HIMANSHU MONGA, INDIA  
ANKITA GAUR, INDIA  
MUHAMMAD ABRAR, PAKISTAN  
HOSSEIN FATHI, IRAN  
EBRAHIM AGHAYARI, IRAN  
BOUHAFS BENEMAR, ALGERIA  
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**SLOT AVAILABLE**  
**SLOT AVAILABLE**

JUAN CAPMANY, SPAIN  
VALERY LOIKO, BELARUS  
DAVID ABOOKASIS, ISRAEL  
CARLOS ESCOBEDO, CANADA  
MANUEL OCEGUEDA, MEXICO  
SOHAIL MUHAMMAD, PAKISTAN  
EDUARDO PEREZ CARETA, MEXICO  
MA HONGCAI, CHINA  
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**SLOT AVAILABLE**  
**SLOT AVAILABLE**

## DAY 03

### KEYNOTE SESSIONS

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### SHORT COURSE

RICARDO SAAD, USA

### YOUNG RESEARCHERS FORUM

ADI PICK, USA

LOKENDRA SINGH, INDIA

JIE JI, CHINA

MITHUN PAL, INDIA

AAMOD SHANKER, USA

HEDYEH PAZOKIAN, IRAN

ISIS VASCONCELOS DE BRITO, BRAZIL

RAN CHEN, CANADA

RENATA ISMAGILOVA, RUSSIA

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## DAY 03

### POSTER PRESENTATION

XIAOYUN PU, CHINA

JI BIAN, CHINA

EHSAN KAMANI, IRAN

WANG WEIJUN, CHINA

RAMY ABDLATY, EGYPT

HEDYEH PAZOKIAN, IRAN

YING ZENG, CHINA

ROSARIO GONZÁLEZ MOTA, MEXICO

TAEBONG EOM, REPUBLIC OF KOREA

MISHRAIM SANCHEZ TORRES, MÉXICO

IVAN KHRAMOV, RUSSIA

NIKOLAY VANYUSHKIN, RUSSIA

KIRILL ZOTOV, RUSSIA

ILYA SAVICHEV, RUSSIA

IRINA SHEBARSHINA, RUSSIA

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# GLOBAL CONGRESS & EXPO ON ADVANCEMENTS OF LASER, OPTICS & PHOTONICS 2019



## Defining the agenda

08:00 – 09:00	Registration
09:00 – 09:15	Welcome
09:30 – 10:00	Opening Plenary Session
10:00 – 10:10	Video statements by high-level supporters

## Program Features

- Exhibitions
- Keynote Presentations
- Workshop
- Oral Presentations
- Special Sessions
- Short Course
- Young Research Forum
- Poster Presentations
- B2B Networking

# GLOBAL CONGRESS & EXPO ON ADVANCEMENTS OF LASER, OPTICS & PHOTONICS 2019



## Keynote Presentations



### DIETER H BIMBERG

*Technical University Berlin, Germany and  
Chinese-German Center for Green Photonics of the CAS at CIOMP,  
Changchun*

**Title:** Nanostructures for Flying q-bits and Green Photonics



### SANTIAGO ROYO

*Universitat Politècnica de Catalunya, Spain*

**Title:** State of the art of lidar imaging for autonomous vehicles



### ALEXANDER A ORAEVSKY

*CEO, TomoWave Laboratories, USA*

**Title:** Biomedical optoacoustic imaging: Exponential growth from the first ideas to clinical trials



### JOSE MIGUEL LÓPEZ-HIGUERA

*Photonic Engineering Group of Universidad de Cantabria, CIBER-  
BBN and IDIVAL, Spain*

**Title:** Healing with Light: The potential of Photodynamic Therapy



### MAXIM S. PSHENICHNIKOV

*Zernike Institute for Advanced Materials, University of Groningen,  
The Netherlands*

**Title:** Lab-on-a-chip Spectroscopy: Learning the structural complexity

# GLOBAL CONGRESS & EXPO ON ADVANCEMENTS OF LASER, OPTICS & PHOTONICS 2019



## Keynote Presentations



### MANISH D KULKARNI

*Chief Executive Officer, Diagnostic Solutions & Systems, USA*

**Title:** Next Generation Ophthalmic Imaging



### GERSHON KURIZKI

*Weizmann Institute of Science, Rehovot, Israel*

**Title:** Long-range optical interactions



### AUREL YMETI

*CEO at Nanoalmyona BV, Netherlands*

**Title:** Lab-on-a-Chip Photonic Biosensors for Point-of-Care Applications



### YOSSEF BEN EZRA

*"Holon Institute of Technology (HIT), Israel  
Cellowireless LTD., Holon, Israel"*

**Title:** Wavelet Packet Transform (WPT) Applications in High Spectral Efficiency (SE) Optical Communication Systems



## Special Session



### BEKIR SAMI YILBAS

*King Fahd University of Petroleum and Minerals, KSA*

**Title:** Laser texturing of alloy surfaces towards self-cleaning applications



### ILYA YAROSLAVSKY

*IPG Photonics, USA*

**Title:** Super pulsed regimes of diode and fiber lasers for surgical and therapeutic medical applications



### CRINA COJOCARU

*Universitat Politècnica de Catalunya, Spain*

**Title:** Surface and bulk harmonic generation in the opaque region of GaAs

## Short course



### RICARDO SAAD

*Lumentum and University of Texas, Dallas, USA*

**Title:** High-Speed Optical Transceiver Technology for Data Centers

Special workshop session

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**MOHAMMED SAAD**

*Thorlabs, USA*

**Title:** Infrared Optical Fibers for passive and active applications:  
The Challenges to bring the technology to the market.

Workshop

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**CHUNCHAO QI**

*China Communication Technology Co., Ltd, China*

**Title:** All-fiber terahertz time domain spectroscopy system

Oral Presentation



**MATT KALINSKI**

*Utah State University, USA*

**Title:** Dynamic Rotative Ferroelectricity of Trojan Electrons on Multiple Parallel Interacting Regular 2 -dimensional Lattices



**KONSTANTIN ZHURAVLEV**

*Rzhanov Institute of Semiconductor Physics SB RAS, Russia*

**Title:** The prospect of a green laser based on AlGaIn/AlN structures heavily doped with silicon



**KONSTANTIN ZLOSHCHASTIEV**

*Durban University of Technology, South Africa*

**Title:** Quantum sustainability phenomenon in optical systems and its applications



**KONSTANTIN M GOLANT**

*Kotel'nikov Institute of Radioengineering and Electronics of Russian Academy of Sciences, Russian Federation*

**Title:** Fibre taper coated with zinc and bismuth chalcogenides thin film heterostructure



**JIE LI**

*Chinese Academy of Sciences, China*

**Title:** 5 J, 200 Hz Nd:YAG laser system with high beam quality



## RAN CHEN

*Dalhousie University, Canada*

**Title:** Engineering optical fields in the far-field and near-field



## ZAMORA GÓMEZ, ALETHEA VANESSA

*Fraunhofer IZM, Germany*

**Title:** Stacked glass block connectors for high power photonic modules



## FREDDY MONROY-RAMIREZ

*Universidad Nacional de Colombia, Colombia.*

**Title:** Phase quantification techniques for to study biological samples



## HIMANSHU MONGA

*Jawaharlal Nehru Govt. Engineering College, India*

**Title:** Peak to average power ratio (papr) reduction in wireless system in fading channels



## ANKITA GAUR

*M. L. V. Textile & Engineering College, India*

**Title:** Few-mode erbium doped fiber amplifier for space division multiplexing based optical communication system



### CRINA COJOCARU

*Universitat Politècnica de Catalunya, Spain*

**Title:** Second harmonic generation in spatially randomized crystals: application to ultrashort pulse characterization



### MUHAMMAD ABRAR

*Hazara University, Pakistan*

**Title:** Evaluation of Plasma Parameters and Elemental Analysis of Nanoparticles of SiO<sub>2</sub>, SiO<sub>2</sub> CdTiO<sub>3</sub>, CoTiO<sub>3</sub> using Laser Induced Breakdown Spectroscopy



### HOSSEIN FATHI

*Shahid Beheshti University, Iran*

**Title:** High power 1018 nm fiber laser using low core/cladding ratio of 20/400 μm Yb-doped fiber with output of 472 W



### EBRAHIM AGHAYARI

*Azarbaijan Shahid Madani University, Iran*

**Title:** Supercontinuum Generation by Amplification of Noise-like Pulses in Nonlinear Yb-doped Fiber Amplifier



### BOUHAFS BENEMAR

*University of Tlemcen, Algeria*

**Title:** Effect of porous silicon carbide on the resonant coupled modes in a multilayer sensing nanocavity



## XIN (SCOTT) YIN

*imec - Ghent University, Belgium*

**Title:** Design considerations of electronic-photonic integrated front-ends for high data rate digital communications



## KONRAD ALTMANN

*LAS-CAD GmbH, Germany*

**Title:** Embedding the photon with its relativistic mass as a particle into the electromagnetic wave explains the Gouy phase shift as an energetic effect



## WOLFGANG SCHADE

*"Fraunhofer HHI, Germany  
Clausthal University of Technology, Germany*

**Title:** Fiber Optical Sensors for Medicine, Robotics and Smart Factories



## AILING ZHANG

*Azarbaijan Shahid Madani University, Iran*

**Title:** Tunable and reconfigurable integrated filter based on long-period waveguide grating



## JUAN CAPMANY

*Universidad Miguel Hernández, Spain*

**Title:** Real-time up conversion to the visible of 2D infrared images



### VALERY LOIKO

*Stepanov Institute of Physics of the National Academy of Sciences of Belarus, Belarus*

**Title:** Ordered Layer of Spherical Particles: Scattering and Absorption of Light



### DAVID ABOOKASIS

*Ariel University, Israel*

**Title:** Integrated optical imaging and spectroscopy approach for biological tissue characterization in the spatial frequency domain



### CARLOS ESCOBEDO

*Queen's University, Canada*

**Title:** Ultraportable nanostructured sensors for point-of-use biochemical applications



### MANUEL OCEGUEDA

*Autonomous University of Baja California, Mexico*

**Title:** Nonlinear transient techniques for characterization of 1.5  $\mu$ m optical transitions of the acetylene in hollow-core microstructured fibers



### SOHAIL MUHAMMAD

*NED University of Engineering and Technology, Pakistan*

**Title:** Numerical Comparison of CO<sub>2</sub> and Fiber Laser Welds at Different Power Inputs



## **EDUARDO PEREZ CARETA**

*University of Guanajuato, Mexico*

**Title:** Non Linear Spectroscopy Applied to Elaboration of Ultra Low Sulfur fuels.



## **MA HONGCAI**

*Chinese Academy of Science, China*

**Title:** Active alignment tolerance of space off-axis TMA telescope based on secondary mirror



Poster Presentation



**XIAOYUN PU**

*Yunnan University, China*

**Title:** The study on optofluidic fluorescence resonance energy transfer lasing in a pdms microfluidic channel



**JI BIAN**

*Fudan University, China*

**Title:** The improvement of the polarization extinction technique by using polarization beam splitter for measuring amplifier spontaneous emission in optical amplifier



**EHSAN KAMANI**

*Iran*

**Title:** Evaluation the effect of low Level laser on liposomes containing chemotherapy drug (Docetaxel) and compare with prescribed chemotherapy drugs (Docetaxel) procedure in prostate cancer cells in vitro



**WANG WEIJUN**

*Huazhong University of Science and Technology, China*

**Title:** Optically controlled terahertz modulator by Formamidinium Lead Iodide (FAPbI<sub>3</sub>)



## RAMY ABDLATY

*Military Technical College, Egypt*

**Title:** Acousto-Optic Tunable Filter-based Remote Sensing system Characterization Guidelines



## HEDIEH PAZOKIAN

*University of Technology, Iran*

**Title:** Fabrication of microchannels in polyethersulfone (PES) substrate with Nd:YAG laser



## YING ZENG

*Huazhong University of Science and Technology, China*

**Title:** Optical modulation of PZT/LNO thin films with different periodic structures in the terahertz range



## ROSARIO GONZÁLEZ MOTA

*Instituto Tecnológico de Aguascalientes (TecNM/ITA), Mexico*

**Title:** Co<sub>2</sub> laser radiation effects on LDPE films of different compositions



## TAEBONG EOM

*Korea Research Institute of Standards and Science, Republic of Korea*

**Title:** Frequency stabilized lasers for gauge block interferometer



### MISHRAIM SANCHEZ TORRES

*Universidad Autónoma de Baja California, México*

**Title:** Projected fringes method to identification of the mechanical discontinuities in metallic materials



### IVAN KHRAMOV

*Moscow Institute of Physics and Technology, Russia*

**Title:** Laser radiation power sensor with adjustable dynamic range based on the copper-coated silica optical fiber



### NIKOLAY VANYUSHKIN

*Moscow Institute of Physics and Technology, Russia*

**Title:** High-power laser beam profile measurements based on the matrix array of the copper-coated passive optical fibers



### KIRILL ZOTOV

*Moscow Institute of Physics and Technology, Russia*

**Title:** Measurement of optical absorption coefficients of nonlinear-optical materials using piezoelectric crystal oscillator circuits



### ILYA SAVICHEV

*Moscow Institute of Physics and Technology, Russia*

**Title:** Piezoelectric resonator for temperature measurement of metal-dielectric heterostructures interacting with laser radiation

# GLOBAL CONGRESS & EXPO ON ADVANCEMENTS OF LASER, OPTICS & PHOTONICS 2019



## IRINA SHEBARSHINA

*Moscow Institute of Physics and Technology, Russia*

**Title:** Piezoelectric resonance laser calorimetry of LBO crystals in vacuum

Young Research Forum



**ADI PICK**

*Harvard University, USA*

**Title:** Applications of exceptional points in photonic, atomic, and solid-state system



**LOKENDRA SINGH**

*DIT University, India*

**Title:** Design of all-optical logic gates using Kerr effect inside plasmonic waveguide based MZI



**JIE JI**

*Huazhong University of Science and Technology*

**Title:** Active control of terahertz wave based on metasurface



**MITHUN PAL**

*SN Bose National Centre for Basic Sciences, India*

**Title:** Trace Detection of Exhaled Breath N<sub>2</sub>O and Dissolved N<sub>2</sub>O in Human Gastric Juice Using External Cavity Quantum Cascade Laser Operating at 7.6  $\mu$ m



## **AAMOD SHANKER**

*University of California, Berkeley, USA*

**Title:** Differential equations for electromagnetic turbulence



## **HEDYEH PAZOKIAN**

*University of Technology, Iran*

**Title:** Differential equations for electromagnetic turbulence  
Fabrication of microchannels in polyethersulfone(PES) substrate  
with Nd:YAG lasere



## **ISIS VASCONCELOS DE BRITO**

*University of São Paulo, Brazil*

**Title:** Digital Holographic Microscopy associated with Traction  
Force Microscopy applied to the local analysis of cardiomyocytes  
contractility



## **RAN CHEN**

*Dalhousie University, Canada*

**Title:** Engineering optical fields in the far-field and near-field



**RENATA ISMAGILOVA**

*Russian Academy of Sciences, Russia*

**Title:** Investigation of temperature dependent optical spectral properties of polysiloxane polymers used in high-power fiber optics

# City Attractions



**Mercado de Colón**



**Plaza de la Virgen**



**Palace of the Marqués de Dos Aguas**



**Museu de les Ciències Príncipe Felipe**



**Llotja de la seda**



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