

FINAL CALL FOR PAPERS

June 13-18, 2027
icm2027.org

THE 23RD INTERNATIONAL CONFERENCE ON MAGNETISM (ICM)

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ICM 2027
SAN JUAN, PUERTO RICO

Dear Colleagues,

The 23rd International Conference on Magnetism (ICM 2027) is sponsored jointly by AIP Publishing and the IEEE Magnetics Society, with support from The International Union of Pure and Applied Physics (IUPAP). ICM is a major international conference series covering both fundamental and applied research related to magnetism and is held every three years. ICM 2027 will be held June 13-18, 2027 at the Puerto Rico Convention Center in beautiful San Juan, Puerto Rico.

On behalf of the Management Committee of ICM 2027, we cordially invite you to attend the Conference and actively participate in its technical sessions, and by doing so to contribute to the continued success of the ICM series. ICM 2027 provides an opportunity for you to share your research with the largest and broadest collection of magnetism researchers assembled in one place, and to learn about the most recent developments in the field. Up-to-date information on all aspects of the Conference can be found at https://icm2027.org. A list of important dates and a summary of the Conference program are appended below.

The small island of Puerto Rico (just 100 miles long and 35 miles wide) is a U.S. territory with a 500-year history of the interweaving of the Taíno, African, and Spanish cultures. The capital city of San Juan is the largest city in Puerto Rico and is located on the Caribbean coast. The cobblestoned Old San Juan neighborhood features colorful Spanish colonial buildings and 16th-century landmarks, including El Morro and La Fortaleza, massive fortresses with sweeping ocean views. Outside of San Juan, you will find the only tropical rainforest in the U.S. National Park system, breathtaking waterfalls, over 300 gorgeous beaches, and so much more. The people of Puerto Rico are known for their passion and joy for life, and are eager to share it with visitors. Make sure you leave plenty of time to explore the island! The Conference Hotel, the Sheraton Puerto Rico Resort & Casino, is located just 15 minutes from the airport and steps away from the Convention Center where all conference sessions will be held.

We look forward to seeing you in San Juan and to an exciting and enjoyable Conference.

Axel Hoffmann
ICM 2027 General Chair

Clarina Dela Cruz, Shinichiro Seki, Jairo Sinova and **Steffen Wirth**
ICM 2027 Program Co-Chairs

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IMPORTANT DATES

Abstract Submission Site Opens	October 1, 2026
Abstract Submission Deadline	November 13, 2026
Best Student Presentation Award Nomination Deadline	November 13, 2026
Conference Advance Registration Opens	December 3, 2026
Author Abstract Status Notification	December 21, 2026
Child Care Grant Application Deadline	January 15, 2027
Student Travel Grant Application Deadline	January 15, 2027
Manuscript Submission Opens	March 1, 2027
Manuscript Submission Deadline	April 30, 2027
Conference Advance Registration Closes	April 30, 2027
Hotel Reservation Deadline	April 30, 2027
Presenter and Session Chair Registration Deadline	April 30, 2027



Conference Program

The program will include five plenary lectures, semi-plenary, invited and contributed oral presentations, and poster sessions. The Sunday before the actual program will include magnetism related tutorials. Details of the tutorial, plenary, and invited program are available at https://icm2027.org/program/speakers.

Invited Presentations and Symposia

IThe submission site for nominations is now closed. Invited speakers will be contacted by the Program Co-Chairs and are expected to present onsite in Puerto Rico. The Program Committee may also select contributed presentations submitted during the abstract submission phase to be upgraded to invited talks as recommended by the Program Committee.

Please note that if you submitted a nomination, that does not guarantee an invited talk. If a nomination for an invited talk is accepted, the invited speaker must submit an abstract through the invited speaker submission site. If a nomination is not accepted, an abstract must be submitted to the abstract submission site to be considered for the technical program.

Abstract Submission

Abstract submission will open on October 1, 2026. The deadline for abstract submission (November 13, 2026) will be strictly observed. All abstracts must be submitted online at https://icm2027.abstractcentral.com. Abstracts sent via e-mail or regular mail will not be processed or acknowledged. Details about the format are posted at the https://icm2027.org/abstract-submissions. Authors will be informed of the status of their submission via e-mail by December 21, 2026. Most contributions will be presented as posters in sessions that will not compete with other activities.

SUBMIT ABSTRACT

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Technical Presentations

Contributed papers accepted for the Conference will be presented either as oral presentations or posters, with the majority being posters. Authors should indicate on the submission form if they are willing to present in either form, only as a poster, or only as an oral. The Program Committee will make the final decision on the assignment of papers to sessions and the presentation format for each session.

Contributed oral presentations will be in the format of a 12-minute talk by a registered author, followed by a 3-minute discussion period. Authors are expected to bring their presentations on their own laptop along with a backup copy on a USB drive.

Poster presentations will consist of well-prepared visual materials about the work posted on a designated board, with the author available to provide details and answer questions during the selected poster sessions. Simply posting a copy of the paper is inappropriate and will be marked as a NO SHOW. Additional presentation instructions will be available on the Conference website.

List of Themes

Conference sessions will be organized under the following themes and topics:

Theme I: Strongly Correlated Electrons Systems (SCES)

- **I.1.** Unconventional superconductivity and magnetism in SCES
- **I.2.** Topological states in SCES, including Dirac and Weyl semimetals
- **I.3.** Heavy fermion systems, Kondo physics, and valence fluctuations including actinides
- **I.4.** Frustration and quantum spin liquids
- **I.5.** Crystal electric field (CEF) effects and multipolar ordering in SCES
- **I.6.** Quantum phase transitions and related phenomena including metal-insulator transitions
- **I.7.** Non-equilibrium physics in SCES, including mesoscopic Kondo and non-equilibrium pump-probe states
- **I.8.** Theoretical frameworks, numerical methods, and AI-assisted approaches for strong correlations
- **I.9.** Materials design and novel advanced materials
- **I.10.** Fermi surfaces and electronic structure of correlated phases

Theme II: Magnetic Materials (focus on bulk materials)

- **II.1.** Hard magnetic materials
- **II.2.** Soft magnetic, amorphous, and nanocrystalline materials
- **II.3.** Materials for energy applications
- **II.4.** Emerging properties in functional magnetic materials
- **II.5.** Multiferroics and magnetoelectric materials
- **II.6.** Magnetic shape memories and magnetoelastic materials
- **II.7.** Critical challenges and magnetic materials (raw materials, sustainability, automotive)
- **II.8.** Magnetophotonics and magnetoplasmonics
- **II.9.** Magnetic topological and magneto-chiral materials
- **II.10.** Altermagnetic materials

Theme III: Confined Magnetism

(focus on thin films, hetero- and nanostructures, etc.)

- **III.1.** Advanced synthesis of magnetic thin films and nanostructures
- **III.2.** Anisotropy effects in magnetic thin films and multilayers
- **III.3.** Surface and interface effects, exchange bias, and exchange springs
- **III.4.** Multifunctional and strongly coupled phenomena in confined magnetic systems
- **III.5.** Magnetic nanoparticles and nanowires
- **III.6.** Theory, modeling, and simulation of nanomagnetic systems
- **III.7.** Low-dimensional magnetism and van der Waals magnets
- **III.8.** Non-collinear spin textures and emergent phenomena in confined systems
- **III.9.** Magnetism in 3D nano-architectures

Theme IV: Spintronics and Magnetization Dynamics

- **IV.1.** Spin transport, spin tunneling, spin torque, and caloritronics phenomena
- **IV.2.** Spin-orbit effects, orbitronics, and electric field effects on magnetic systems
- **IV.3.** Anisotropy effects in magnetic thin films and multilayers
- **IV.4.** Molecular spintronics and chiral spintronics
- **IV.5.** Altermagnetism, unconventional magnetism, and antiferro-magnetic spintronics
- **IV.6.** Magnetic textures, 3D nanomagnetism, and micromagnetics
- **IV.7.** Magnonics, including magnon-X couplings
- **IV.8.** Quantum spintronics, including coherent spin manipulation in semiconductors and superconductors
- **IV.9.** Fundamentals of spin-based computing
- **IV.10.** Ultrafast magnetization dynamics including terahertz spintronics

Theme V: Magnetic Advanced Characterizations and Applications

- **V.1.** Magnetic sensors
- **V.2.** Magnetic devices for information storage
- **V.3.** Applications of magnonics and spin textures for information technologies
- **V.4.** Unconventional computing with magnetic systems
- **V.5.** Spin-based quantum computing and sensing
- **V.6.** Flexible spintronics and magnetic micro-electro-mechanical systems (MEMS)
- **V.7.** Novel tools for investigating magnetism at the nanoscale
- **V.8.** Emerging techniques at large facilities (neutron, synchrotron, high fields, etc.)
- **V.9.** Biomedical, food, and environmental applications
- **V.10.** Interdisciplinary applications and technologies

Publications

We encourage authors of papers presented at the Conference to consider publishing in the Conference-related issues of the *IEEE Transactions on Magnetics* and *AIP Advances*. The editorial process for the manuscripts will meet the same standards required for regular submissions to the two journals. Papers will be assigned to a journal based on their subject area. We are not able to accommodate individual author preferences for publication journal.

Best Poster Presentations

At each of the poster sessions, judges will select best posters. Selections will be based on the level of the research, quality of the poster, and clarity of the presentation. The winning posters will be displayed for the rest of the meeting and the winning presenter will be given a unique commemorative trophy and certificate.

Registration

Conference registration will open December 3, 2026 at which time detailed registration fees and policies will be posted.

Official Conference Hotel

Sheraton Puerto Rico Hotel & Casino
200 Convention Boulevard, San Juan, Puerto Rico

ICM 2027 has negotiated special discounted rates for Conference attendees at the Sheraton Puerto Rico Hotel , the official hotel for ICM 2027. Please use only the official hotel reservation links available on our website to book your room.

CLICK HERE FOR MORE DETAILS ABOUT THE CONFERENCE HOTEL



Best Student Presentation Award

This $1,000 USD award recognizes and encourages excellence in graduate studies in the field of magnetism. Finalists will receive a $250 USD award. For additional details on the award and the selection process, visit the Conference website under “Awards”.

Student Travel Grants

The Conference will offer travel support to a limited number of qualified students who will attend the Conference. The deadline for submitting applications and letters of endorsement is Janaury 15, 2027. For additional details on eligibility requirements and the application process, go to https://icm2027.org/travel/travel-support.

Child Care Support

There is a limited amount of child care support funding for Conference attendees who bring small children to the meeting or who incur extra expenses in leaving their children at home (i.e., extra daycare or babysitting services). The deadline for submitting applications is January 15, 2027. For additional details on allowable expenses and the application form, go to https://icm2027.org/travel/child-care-support.

Exhibits and Support Opportunities

An exhibition of related services, equipment, materials, software, and technical journals and books will be held as a part of the ICM 2027. Individuals and organizations interested in purchasing booth space or supporting Conference events may obtain more details by visiting our website at https://icm2027.org/partners-exhibitors/become-partner.

Visa Requirements

Puerto Rico follows the same entry rules as the mainland U.S. If you need a visa to enter the U.S., you’ll need one for Puerto Rico too. Obtaining your visa to enter Puerto Rico may take several months. Applicants should consult the U.S. Department of State’s website to determine first if you need a visa or visa renewal, to schedule an appointment for an interview and to determine processing wait times. To request a letter of invitation from the Conference, complete the online form at https://icm2027.org/travel/visa-entry-information. You must be either a registered Conference attendee or have submitted an abstract in order to receive an invitation letter.

All nationals and citizens of Visa Waiver Program (VWP) countries who plan to travel to Puerto Rico for temporary business or pleasure for 90 days or less are required by law to obtain travel authorization prior to travel to the U.S. This authorization can be obtained online through the Electronic System for Travel Authorization (ESTA).

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