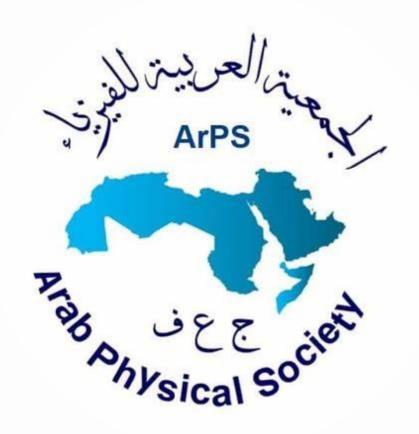
Arab Physical Society (ArPS)

الجمعية العربية للفيزياء

Prof. Shaaban Khalil ArPS President

8th African School of Physics, ASP2024 Marrakesh, Morocco July 10, 2024



Introduction

A physical society for the Arab world is very important to facilitate and promote joint scientific research among Arab physicists.

Several physical societies exist in different regions all over the world, as the European Physical Society, American Physical society, African Physical society, etc.

After several discussions and meetings with Arab physicists, we decided to establish the Arab Physical Society (APS) as the first physical society in the Arab world.

The Arab Physical Society (ArPS)

ArPS is a non-profit membership organization dedicated to the dissemination and promotion of physics knowledge across the Arab world. Its mission focuses on enhancing scientific education, fostering research, and building human capacities in the field of physics.

Our Vision

We are a collective of professional Arab researchers in physics and its various applications. Our aim is to advance physics knowledge and drive scientific research within the Arab world.

Membership

Current Number of Society Members: 1,200

The ArPS Founding Committee

The Arab Physical Society was born on April 29th, 2021. In the constituent meeting, the cofounders:



Shabaan Khalil President



Fairoz Malek Vice President



Ammar Sakaji Financial Managert



Farida Fassi Scientific Affairs Director



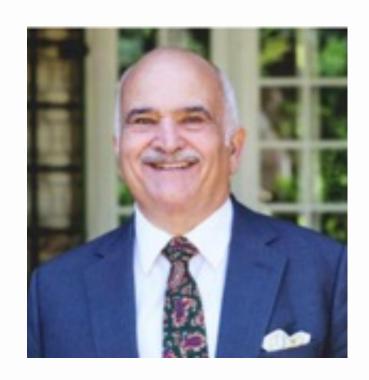
Mohammed Fellah Secretary General

Advisory Committee (AC)

AC consisting of one Arab physicist from each Arab country. The AC will provide advice and work with the GC in setting up the proper strategy to ensure success of the society activities.

Launching Event of the Arab Physical Society on Thursdays April 7, 2022.





The inauguration of the Arab Physical Society took place under the patronage of Prince Hassan bin Talal, who delivered a compelling welcome speech.

The ArPS Current Governing Council



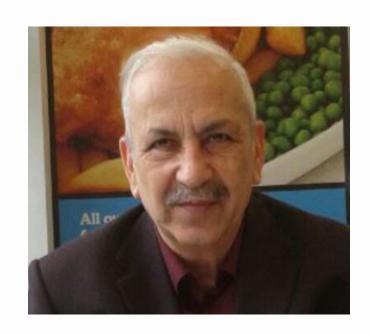
Shabaan Khalil President



Shawqi Al Dallal Vice President



Ali Abdou



Riyadh Mirza



Ammar Sakaji



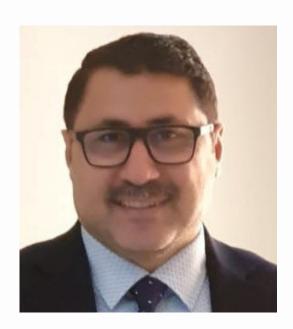
Nidal Chamoun



Mahmoud Abdel-Hafiez



Hichem El Euch



A.M.Shalaby

ArPS Mission and Objectives

Mission

Promote excellence and creativity in physics for the benefit of the Arab region and humanity.

Objectives

- Facilitate Collaboration: Among researchers and students in the Arab region.
- Organize Events: Scientific and educational activities.
- Support Postgraduate Studies: With joint supervision.
- Highlight Physics' Impact: On economy and social progress.
- Promote Cooperation: In physics education and latest research.
- Form Scientific Committees: At the Arab regional level and internationally.
- Award Recognitions: To distinguished physicists.

Arab Physical Society Activities

Eight Physics Working Groups

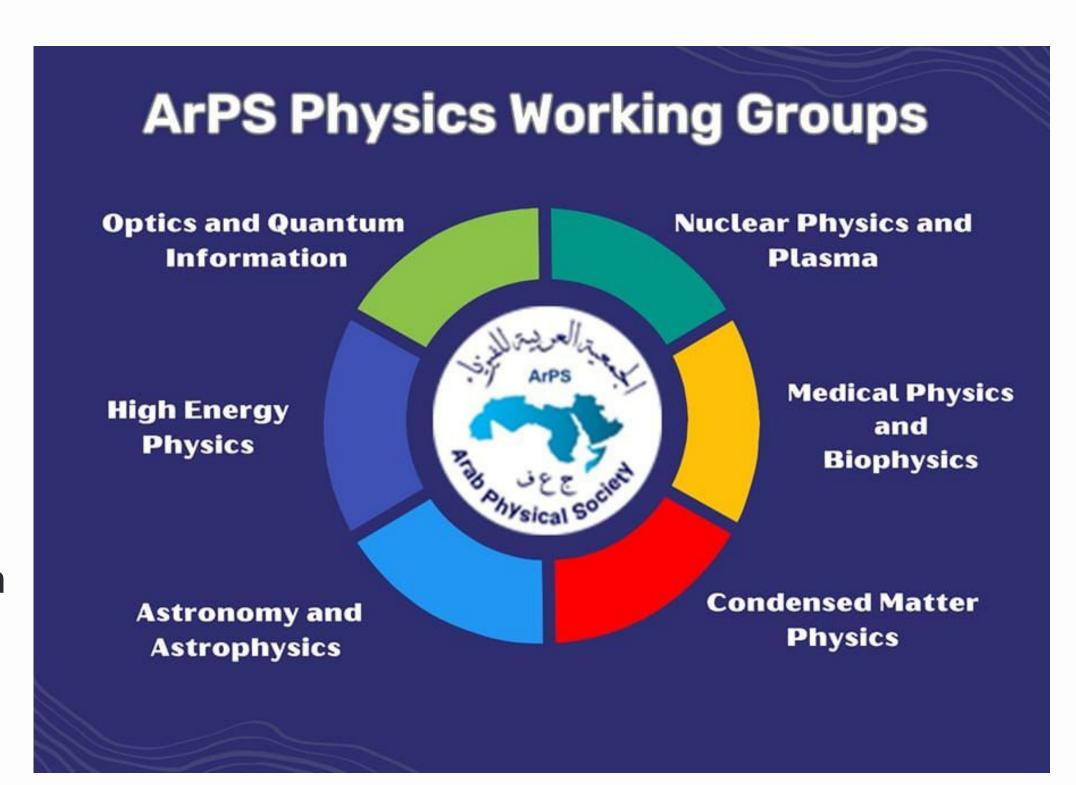
Monthly Seminars and Colloquium Lectures

Schools, Workshops and Conferences

(مجلة مسارات في الفيزياء) Trends in Physics Magazine

ArPS Physics Working Groups

- High Energy Physics
- Astrophysics and Astronomy
- Condensed Matter Physics
- Medical Physics and Biophysics
- Optics, Laser and Photonics
- Nuclear Physics and Plasma
- Quantum Information and Quantum Computing
- Outreach and Physics Education



Seminars and Colloquium Lectures

ArPS organizes a monthly remotly colloquium lecture.

Each ArPS working group holds a serious of seminars in their field of interest.

Cosmological Inflation: modified gravity versus warming

Dark Matter Dark Energy and Fate of the Universe

Untangling the roots of cancer

Prof. Mohamed Bayoum i

Prof. Nidal Chamoun

FIRST SEMINAR OF THE HIGH **ENERGY GROUP**

COSMOLOGICAL INFLATION: MODIFIED **GRAVITY VERSUS WARMING**

Prof. Nidal Chamoun

- A member of the Governing Council of the Arab Physical Society.
- · Professor at the Higher Institute of **Applied Sciences and Technology in** Damascus, SYRIA.

TUESDAY, NOVEMBER 7. 2023





Prof. Shaaban Khalil

THE SEMINAR OF THE **HIGH ENERGY PHYSICS GROUP**

DARK MATTER DARK ENERGY AND FATE OF THE UNIVERSE

Prof. SHABAAN KHALIL

- · HE is one of the prominent high-energy physics in the Middle East.
- · He is the founding director of the center for **Fundamental Physics at Zewail City of Science and** Technology in Egypt, since 2012.
- He also the co-author of two books on particle physics, published in CRC press in the UK.
- · HE was the founding team leader of the Egyptian particle group at the CMS experiment at CERN, Geneva, Switzerland.
- · He is the president of Arab physical society.

SATURDAY, 20 January, 2024. **6РМ GMT.**



FIRST SEMINAR OF THE MEDICAL PHYSICS AND BIOPHYSICS GROUP

UNTANGLING THE ROOTS OF CANCER

Prof. Mohamed Bayoumi

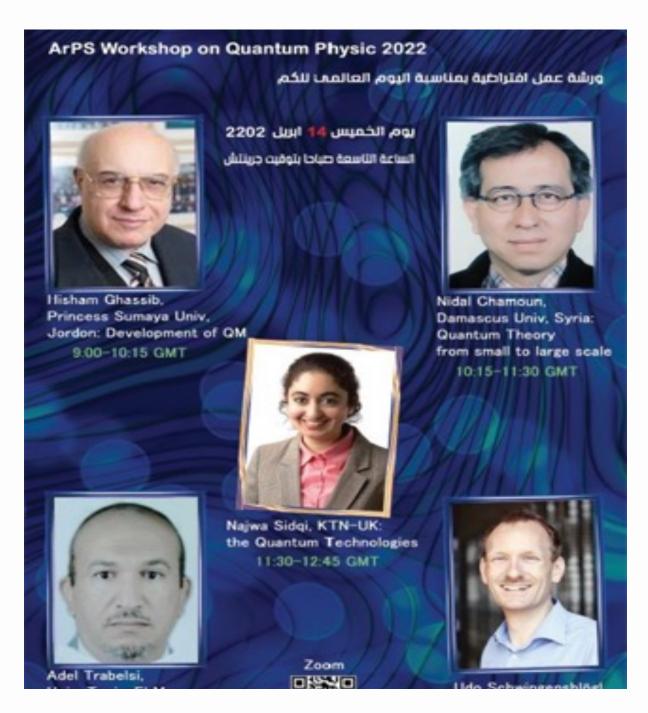
- Prof of Medical Radiation Physics Clinical Oncology and Nuclear Medicine Dept Faculty of Medicine, Mansoura University (retired).
- Saudi Proton Therapy Centre (SPTC) RSO.
- Coordinator of Medical and Biophysics section in the Arab Physical Socity.

SATURDAY, DECEMBER 16. 2023 **7 PM CAIRO TIME**





ArPS Workshops



The Arab Physical Society Workshop on Quantum Physics (2022)



The Arab Physical Society Workshop for Physics Teachers (2023)

ArPS Conferences

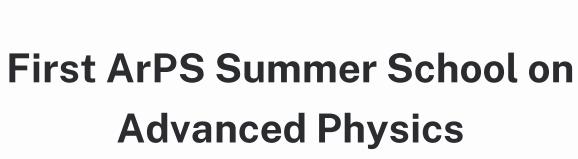
The Arab Physical Society and the University of South Valley-Hurgada branch organized the International Conference from 9 October to 11 October 2023 on Laser Physics, Photonics, and Applications

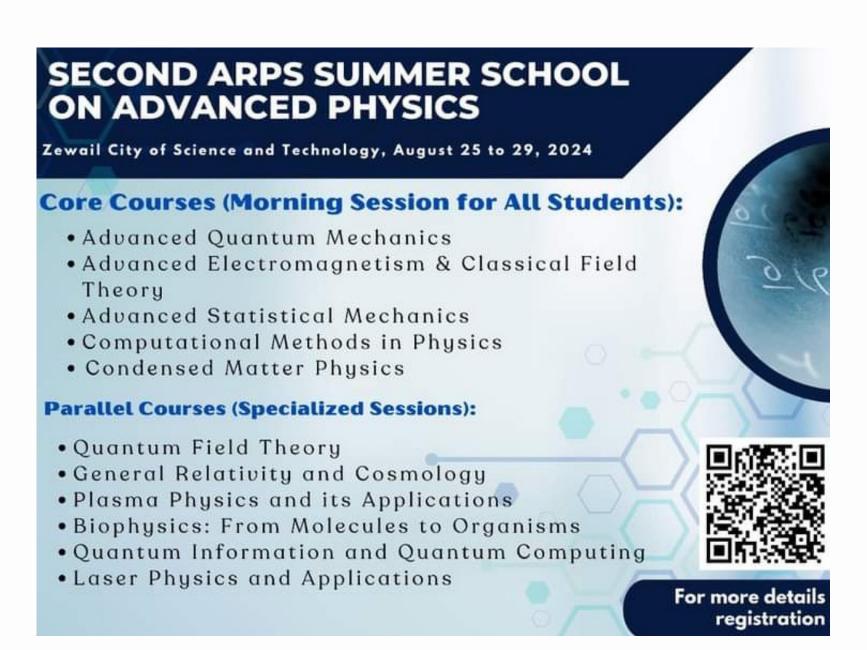


International Conference on Laser Physics, Photonics, and Applications

ArPS Summer School On Advanced Physics







Second ArPS Summer School on Advanced Physics (forthcoming)

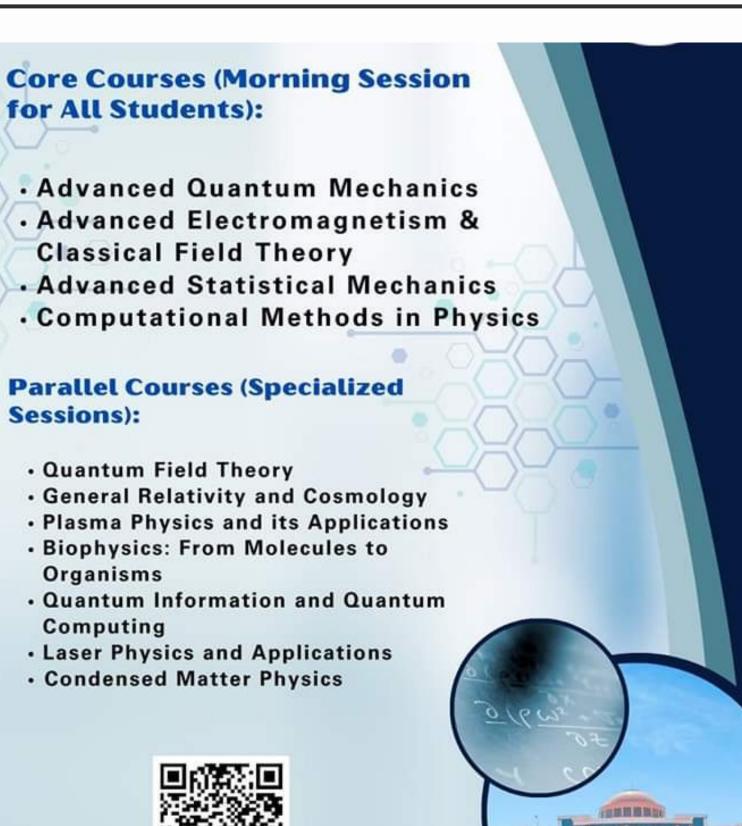
Second Summer School on Advanced Physics

- The Arab Physical Society, in partnership with Mansoura University, organized a Summer School on Advanced Physics. The event took place from August 26 to 31, 2023, at Mansoura University.
- The summer school attracted approximately 150 students.



Forthcoming Event: Second Summer School on Advanced Physics

- Second ArPS Summer School on Advanced Physics with Zewail City of Science and Technology, August 25 to 29, 2024
- Approximately 200 students applied for the summer school.



Second Summer School's Team

- Prof. Shabaan Khalil
- Prof. Ahmed Marouf
- Prof. Mahmoud Abd ElHafez
- Prof. Ahmed Younes
- Assoc.Prof. Gaber Faisel
- Assoc.Prof Fareed Abo ElEla
- Prof. Alexy Golovne
- Dr. Mohamed Abass
- Dr. Amr Badro
- Dr. Mohamed Abolmahassen









Prof. Shabaan Khalil

Prof. Ahmed Marouf Prof. Mahmoud Abd

Elhafez









Prof. Ahmed Younes

DR. Mohamed Abass Assoc. Prof. Gaber Fesal

Dr. Yasser Abdou



Prof. Alexey Golovnev



Dr. Amr Badro



Dr. Mohamed Abolmahassen



Assoc. Prof. Fareed **Abo ElEla**

Magazine of the ArPS: Trends in Physics

مسارات في الفيزياء Trends in Physics

- Makes specialist knowledge accessible to lay readers in the Arab World
- Explains advanced research in physics, chemistry, mathematics, and engineering in simple terms
- Uses standard Arabic language
- Promotes scientific culture and understanding of nature
- Provides the latest scientific and technological news, innovations, and ideas
- Features interviews with renowned scientists
- Includes useful notes for university students



Team Of the Magazine

President of the Boards



Shabaan Khalil





Nidal Chamoun

Editorial Board



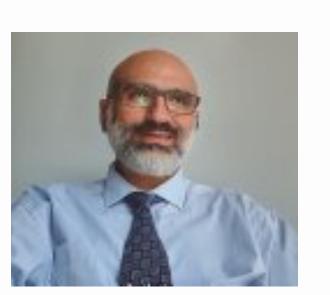
Shawqi Al Dallal



Mohsen Zahran



Sayed Lashin



Ahmed Marouf



Adel Awad



Ammar Sakaji

Team Of the Magazine

Executive Board



Rawya Ramadan



Eman Taha



Masar Almuttairi



Dana Abdulghani



Rand Al-Far



Reem Berry



Afnan Mohamed

الأبواب الثابتة في المجلة

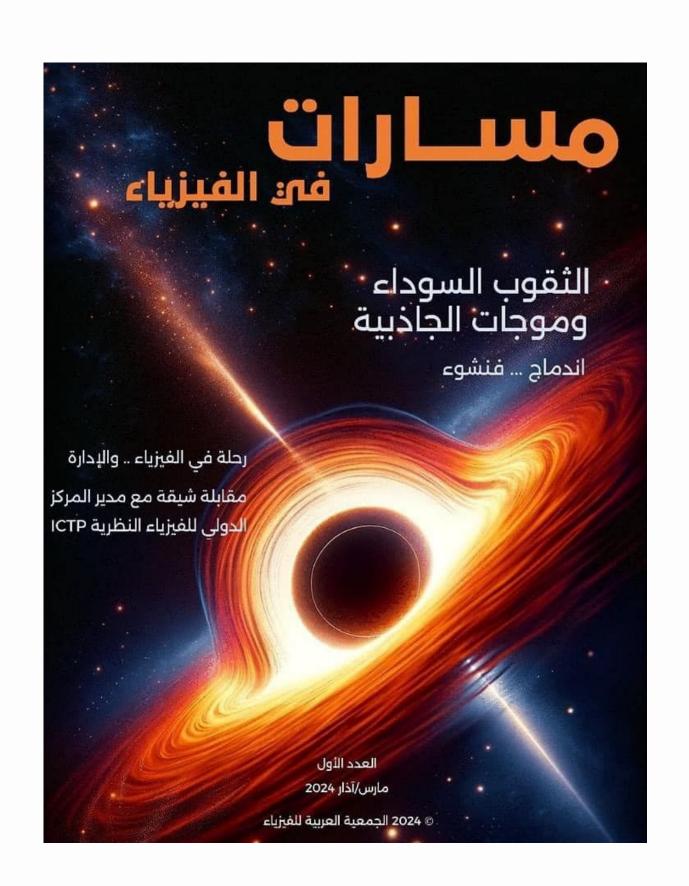


نرجِّب بأي اقتراحات حول المحتوى، السوية، ... أمثلة:

باب عن جوائز نوبل والحائزين عليها تعريف بالعلماء العرب في الماضي والحاضر

- مقالات من بينها مقال الغلاف الرئيسي
- مقابلة مع شخصية علمية مشهورة، مع رابط الفيديو (تُنشر الترجمة العربية في حال تمت المقابلة بلغة أجنبية)
 - أخبار علمية حديثة
 - معلومات إثرائية وتضم:
 - معارف
 - مسألة للطلاب
 - استعراض لكتاب
 - إعلانات (عادة عن نشاط للجمعية)

العدد الأول من مجلة مسارات في الفيزياء



- مقدمة رئيس الجمعية العربية للفيزياء=
 - مقدمة رئيس التحرير=
 - الثقوب السوداء وموجات الجاذبية
 - نظرية الأوتار وما وراءَها=
- مفهوم الزَّمان بين الفلسفة والعلم الحديث
- طاقة الاندماج النووي د. عمرو بدر، د. محمد صوان
- المواد ثنائية الأبعاد وتطبيقاتها: قفزة إلى المستقبل
- رحلة في الفيزياء والأدارة : مقابلة مع مدير المركز الدولي للفيزياء النظرية=ICTP
 - أخبار ومعلومات إثرائية
 - مسألةٌ للطلاب
 - استعراض لكتاب ميكانيك الكم الحديث=

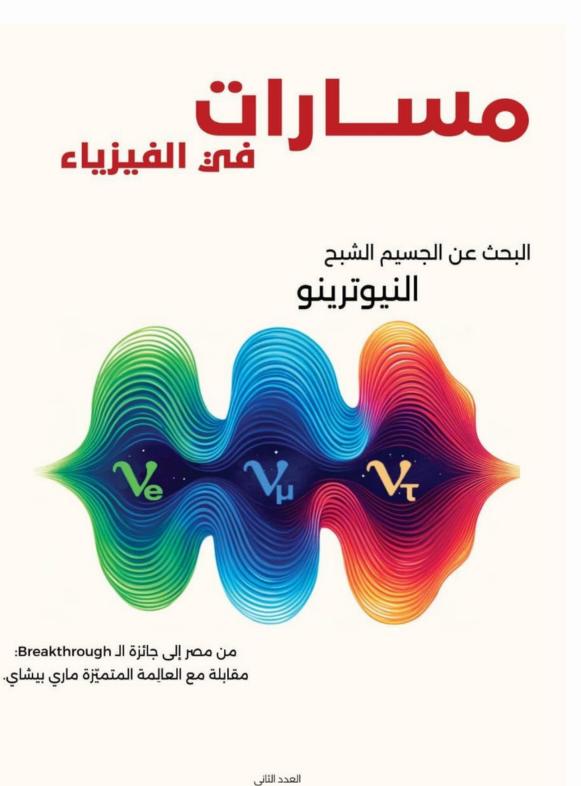
رحلة في الفيزياء والأدارة: مقابلة مع مدير المركز الدولي للفيزياء النظرية ICTP







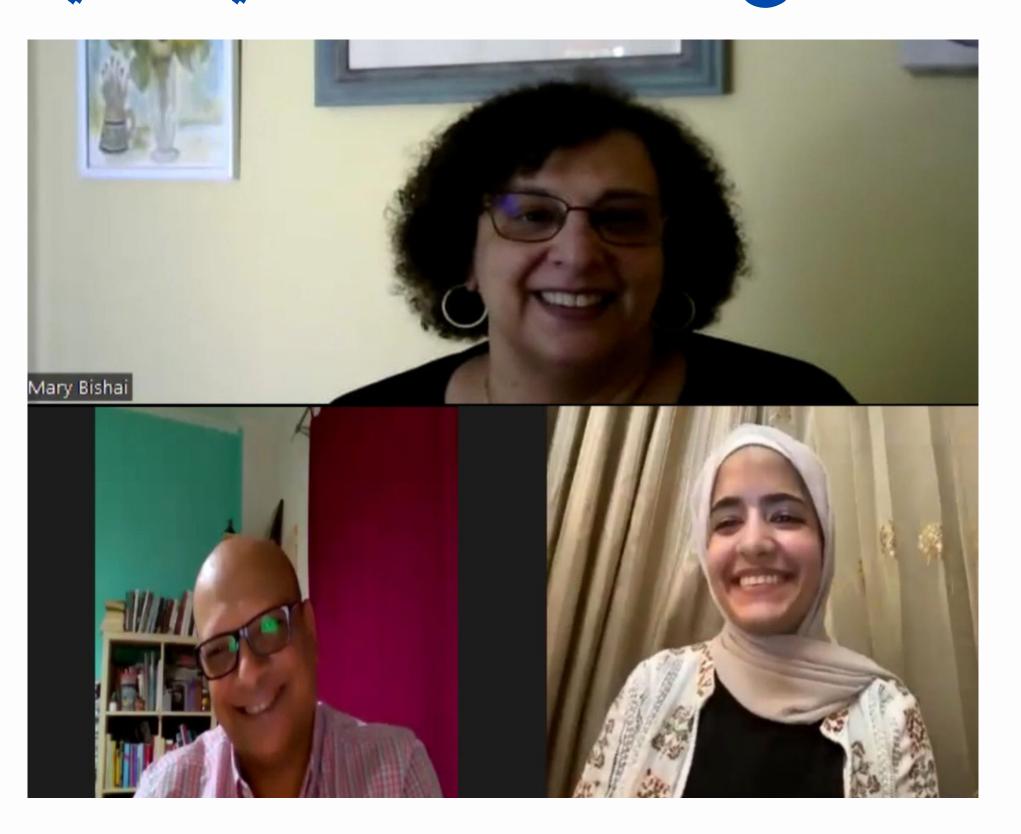
العدد الثاني من مجلة مسارات في الفيزياء



يونيو/حزيران 2024 © 2024 الجمعية العربية للفرزياء

- مقدمة رئيس التحرير
- النيوترينو: الجسيم الشبح
- الموصّليّة الفائقة ومستقبل التقانة
 - مقابلة مع الاستاذة ماري بيشاي
- الخلايا الشمسية طاقة المستقبل النظيفة والمستدامة
- الشواش والكسور"يات حيث الفزياء وجاذبها العجيب=
 - الضوء الكمومي واختبار أسس ميكانيك الكم=
 - کتاب: براد أنشتاین=Fridge
 - كتاب: النظرية المعيارية وفزياء الجسيمات الأولية
 - أخبار علمية و إثرائية
 - مسألة للطلاب=
 - إعلان: مؤتمر النيوترينو والمادة المظلمة

من مصر الي جائزة WBreakthrough من مصر الي العالمة المتميزة ماري بيشاي



Join us to the Arab Physical Society

https://arabphysicalsociety.org/



Thank you!

The Arab Physical Society (ArPS)

8th African School of Physics, ASP2024 Marrakesh, Morocco July 10, 2024

