

# Conference:

## 5th edition of International Women in Mathematics day 2025

Tuesday 20 May 2025

9:00 am – 5:30 pm

Marie Curie Amphitheatre, SUAD Campus

## Abstract:

Every year on 12th May, the Committee of Women in Mathematics (CWM) celebrates Women in Mathematics Day, which is a delightful occasion. The day is celebrated globally with the aim of inspiring women to recognize and commemorate their accomplishments in the field of mathematics. The ultimate goal is to promote an environment that is open, welcoming, and inclusive for everyone. This special day is dedicated to honoring Maryam Mirzakhani, who was born on 12th May 1977 and became the first woman to receive the Fields Medal, the highest recognition in mathematics.

The conference will feature distinguished female mathematicians presenting cutting-edge research in fields such as discrete geometry, combinatorics, high-dimensional probability, and AI applications. Attendees can look forward to engaging discussions, knowledge exchange, and networking opportunities designed to empower the next generation of mathematicians. Under Dr. Tarsissi's leadership, this event will highlight the vital role of women in advancing mathematical sciences while addressing challenges and opportunities in the field, making it a landmark occasion for celebrating excellence and diversity in mathematics.

Dr Lama Tarsissi, Associate Professor- Mathematics at Sorbonne University Abu Dhabi and CWM Ambassador in Lebanon and in the UAE, is organizing the fifth edition of International Women in Mathematics Day 2025

## Programme :

### 9:00 am - 9:30 am:

- *Lama Tarsissi - Welcome speech and introducing CWM, and WIM*

### 9:30 am - 10:00 am:

- Yusra Abdulrahman - Transforming Aerospace Inspections: Integrating Vision Systems, NDT (Infrared Thermography), AI, and the Latest Technological Trends

### 10:00 am – 10:30 am :

- Arwa Abdallah - Mathematical Modelling of Reovirus in Cancer Cell Cultures

### Coffee Break – 10:30 am – 11:00 am

### 11:00 am – 11:45 am :

- Lisa Brashear - From Equations to Oceans: Women Leading with Data, Design and Sustainability

### 11:45 am – 12:15 pm:

- Mireille Hantouche - From Equations to Explanations: A Journey through Uncertainty Quantification to Data-Driven Insights

**12:15 pm – 1:00 pm**

- Ghada AlObaidi - Integral Equation Methods to Analyze the Valuation of American Options"

**Lunch Break + Photo Session – 1:00 pm – 2:00 pm**

**2:00 pm – 2:45 pm:**

- Marwa Banna - Notions of Non-Commutative Independence.

**2:45 pm -3:15 pm :**

- Fatima Taher - El Artificial Intelligence Systems using Medical Image Analysis

**3:15 pm – 3:45 pm :**

- Giulia de Masi - Multi-Agent Collective Intelligence for Marine Environmental Monitoring

**Coffee Break – 3:45 pm – 4:15 pm**

**4:15 pm – 4:45 pm :**

- Aysha Pulakkal - Non linear coupling in Klein-Gordon systems

**4:45 pm – 5:15 pm :**

- Hebatallah AlSakaji - The Impact of Stochastic Perturbations on Disease Dynamics and Tumor–Immune Models.

**5:15 pm – 5:30 pm – Farewell Speech**