

Third Edition of International Women in Mathematics Day 2023

Thursday 25 May 2023
9:00 am – 6:00 pm

Virtual and Physically at
Robert De Sorbon Amphitheatre
Sorbonne University Abu Dhabi

$$i\hbar \frac{\partial}{\partial t} \Psi =$$

$$\Gamma_k[\Phi, \bar{\Phi}] = \sum_{\alpha=1}^{\infty} g_{\alpha}(k) P_{\alpha}$$

$$\int e^{-S\phi_1(x_1) \cdots \phi_n(x_n)} D\phi = (\sum E_i) \left(e \right)$$

$$\hat{H}|\psi_n(t)\rangle = i\hbar \frac{\partial}{\partial t} |\psi_n(t)\rangle$$

$$\frac{\partial \Psi}{\partial t} = -\frac{iE}{\hbar} A e^{i(\mathbf{p}\cdot\mathbf{r} - Et)/\hbar} = -\frac{iE}{\hbar} \Psi$$

$$\Psi(x, t) = \int f(E) \cdot e^{i(kx - \frac{Et}{\hbar})} dt \quad \text{with } \omega = k \cdot c$$

$$\frac{\partial \Psi}{\partial t} = -\frac{iE}{\hbar} A e^{i(\mathbf{p}\cdot\mathbf{r} - Et)/\hbar} = -\frac{iE}{\hbar} \Psi$$



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Programme

8:30 am - 9:00 am

Welcome

9:00 am - 9:10 am

Inauguration

Lama Tarsissi, Assistant Professor in Mathematics

Sorbonne University Abu Dhabi

9:10 am - 9:55 am

From Passion to Purpose: Journey in the Era of Bayesian Networks

Linda Smail, Associate Professor in the College of Interdisciplinary Studies

Zayed University Dubai

9:55 am - 10:25 am

Discovering Scientific Phenomena with Simple Calculus: An Interdisciplinary Cross-Cultural Approach Using the COIL Model

Hania Mahassen, Coordinator and Associate Professor of Mathematics

American University of Dubai

10:25am - 10:55am Coffee Break

10:55am - 11:40am

Mathematical Models for Intelligent Collective Systems

Giulia De Masi, Principal Scientist

Autonomous and Robotic Research Center at Technology Innovation Institute Abu Dhabi

11:40 am - 12:10 pm

Influence of an Awareness Program on the Proliferation of Heroin Addiction

Ghilmana Sarmad, PhD Student

United Arab Emirates University Abu Dhabi

12:10 pm - 12:40 pm

Options as Free Boundary Problems

Ghada AlObaidi, Associate Professor of Applied Mathematics

American University of Sharjah

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Programme

12:40 pm - 1:40 pm Lunch Break

1:40 pm - 2:00 pm Group Photo

2:00 pm - 2:30 pm

Random Matrices and Free Probability

Marwa Banna, Assistant Professor in Mathematics

New York University Abu Dhabi

2:30 pm - 3:00 pm

On Inverse Sum Indeg Energy of Graphs

Fareeha Jamal, PhD Student

United Arab Emirates University, Abu Dhabi

3:30 pm - 4:00 pm

Stochastic Delay Differential Equations with Applications in Ecology and Epidemics

Hebatallah Al Sakaji, Instructor

United Arab Emirates University, Abu Dhabi

4:00 pm - 4:30 pm Coffee Break

4:30 pm - 5:00 pm

Winner of the Math Heckaton

5:00 pm - 5:30 pm

On the Projections and Unitary Groups of Unital C^* -Algebras

Fouzia Shaheen, PhD Student

United Arab Emirates University, Abu Dhabi

5:30 pm - 6:00 pm

Jørgensen Inequality and Its Generalizations

Hala Alaqad, PhD Student

United Arab Emirates University, Abu Dhabi

