

## **Course: Introduction to Quantum Physics**

### *Topics*

Historical development in experiments and theory

Mathematical tools

Examples and applications: Particle in a box, hydrogen atom, tunnelling, etc.

### *Material:*

R. A. Serway & J. W. Jewett, Jr., „Physics for Scientists and Engineers“, chapters 40 – 43, Thomson

J. Gold, “Knocking on the Devil’s door”, Tachyon Publishing

W. Greiner, “Quantum Mechanics, an introduction” Springer  
(the latter two will be available as *pdf* files)

### *Structure:*

Lectures, discussion groups, seminar talks on applications

### *Course frame:*

4 weeks, starting June 28, 3 days a week

An advance registration is requested via email to until June 21 to

[frank.kuehnemann@guc.edu.eg](mailto:frank.kuehnemann@guc.edu.eg).