Manuscript preparation

Prepare and submit the manuscript strictly as per "Guidelines for authors". Manuscript NOT prepared as per Guidelines will not be considered.

1) **For units**, use standard symbols conforming to the International System of Units (SI), e.g., km, m, cm, mm, µm, Å, nm; kg, g, mg, l (liter), ml (milliliter), µl (micro liter), yr (year), wk (weak), d (day), hr (hour), min (minute), sec (second), ppm (parts per million), 0C (centigrade), SD (standard deviation), SE (standard error), CV (coefficient of variation), mg l-1 (milligram per liter), ms-1 (meter per second), g l-1 (grams per liter).

2) **For enzymes**, use trivial names as recommended by IUPAC-IUB Commission.

3) **For abbreviations,** full form of abbreviation should be given at the first citation with abbreviation in the bracket e.g., Jaynes Cummings Model (JCM).

4) **Tables** should be typed in Microsoft-Word Table format on separate pages, and should be numbered using Arabic numerals. They should be supplied with headings and should be referred to as "Table 1, 2, …".

5) **Figures** Only original figures & photographs of high resolution and contrast should be given, prepared by Coral Draw / EPS software as vector-based files.

- The figure width should be **8** cm OR **16** cm and height should not exceed **23** cm with the screen resolution of **300-600 dpi** in **JPEG or TIFF** format. Scanned line figures and images should be of minimum resolution **800 dpi** and for halftone **300 dpi**.

- Symbols and lettering size should be of 9 point in Arial Narrow. Use units as specified in "Authoring Guidelines". The axis of the graph should be 0.5 point or 1.0 point. Do not draw figures with hairlines. Use black & white, hatched and cross hatched patterns for distinctness. Overlapping of the symbols and data should be avoided. Avoid variations in font size in a single figure.

- Use Cyan, Magenta, Yellow & Black (CMYK) colors rather than Red, Green or Blue (RGB) for color figures. Use zero before a decimal number e.g. 0.3, 0.55 etc.

- Electronic changes or manipulation of micrographs or other digital figures / images are not allowed. Linear adjustment of contrast & brightness of color must be applied to the entire image or plate equally. The legend of each figure should be given at the bottom.

6) **Paper structure:** Complete Information should be given *(mandatory) and* should contains the following information:

- **Title of the manuscript:** Short, informative, should not exceed two lines. Numbers and abbreviations should NOT be included (Example, Fixed-Time Analysis of Neural Networks).

- **Author(s) name(s):** The names should be in the order: initials of first and middle names and then surname (family name), (Examole, M. Abdel-Aty[1], H. Servistava[2] and M. Ahmed[3]), Check that all names are spelled correctly.

- **Author(s) affiliations:** Full designation, professional address with postal code, country name and mobile number of all the authors (Example, [1]*Mathematics Department, Faculty of Science, 82524 Sohag, Sohag University, Egypt*)

- **E-mail ID** of all the authors

- **Short running title:** only of 4 or 5 words (Example, Fixed-Time Analysis of ……)

- *Abstract:* Content should be concise and factual, not exceeding 300-400 words, with no references, history of the subject, general sentences and abbreviations and should be written under the following sub-headings: Objective describing research methods used, mentioning to significant findings and recommendation and relevance of the study. (Example: Abstract: We propose a method to engineer stroboscopically arbitrary one-dimensional optical potentials. Our approach is based on ……… . We demonstrate the ability of the method to engineer …………… . We analyze the influence of ………… . It is shown that ………)

- ✓ *Key words:* only 4-5 Key words to serve as subject index. They should be arranged alphabetically.

- ✓ *Introduction:* should be precisely includes the history of the subject, the importance of this work, recently related work, exactly what will be done i.e. objective of the study, the organization of the rest of the paper, concise and specific with no sub-headings, no long paragraphs and accurate citations starting from [1], [2], [3] etc. (Example:

  Introduction

  Quantum entanglement is at the heart of quantum information processing and quantum computation [1–4]. In recent years, many efforts have been devoted to the study of the evolution of joint systems formed by two qubits [5–15]. In particular, Yu and Eberly [5, 6] have found out that ………………

  On the other hand, the long-lived entanglement in cavity QED or solid state systems was investigated by several authors [18–22]. In [18], the authors ………………….

  In the present paper, we investigate the entanglement dynamics and coherence of a quantum system formed by two two-level atoms within two spatially separated ………………….

  The present paper is organized as follows. In section 2, we obtain an explicit analytical solution of one atom interacting with a dissipative cavity in the dispersive limit. In section 3, we consider a quantum system consisting of two atoms within two spatially separated cavities. In section 4, the entanglement dynamics and coherence of the two two-level atoms are investigated by employing the concurrence and linear entropy, respectively. Finally, we summarize our results in section 5.

- **Text** which should be subdivided into the following main headings:

  - ❖   1. Introduction

  - ❖   2. Materials and Methods

  - ❖   3. Results and Discussion (Combined)

  - ❖   4. Acknowledgments

  - ❖   5. References

- **Materials and Methods** should be sufficiently detailed to enable the experiments to be reproduced. The standard techniques and methodology should be adopted and supported with references of standard protocols only.

- **Results and Discussion** should be combined. Results may be split into sub-headings. Results should be co-related and discussed. Data emerging out from the study should be included, arranged in a unified and coherent sequence, and statistically analyzed with significance. It should deal with interpretations and the conclusions drawn, based on results and supported by relevant references. Position of figures and tables should be indicated. The same data should not be presented in both tabular and graphic forms.

Latest references should also be cited. Unpublished references should not be cited.

- **Acknowledgments** should include the names of those who contributed substantially to the work and the sponsor or the funding agency.

- **References** should be cited in the Text by numbers [1], [2], [3] etc. While giving the names of the periodicals, standard abbreviations listed in the International Serials Catalogue, published by International Council of Scientific Unions Abstracting Board (ICSUAB) should be used. Under the heading of References at the end of the manuscript, full and complete references should be written as per style and punctuation given below (see box), arranged alphabetically by first author's surname. (Example:

(How to prepare your references)

✓ **Article in a Journal**
   Author(s). Article title. *Journal title*, vol., pages, year.
   Example:
   [1] B. Gates, Why word is used, *Microsoft Lett.*,**69**, 53-60 (998).

✓ **Book**
   Author(s). *Book title*. Publishing company, Location: Page, year.
   Example:
   [1] M. Nelsin and I. Chuang, *Quantum Information and Computation,* Oxford Press, London UK, 53-60, (1998).

✓ **Book Chapters**
   Author(s). *Chapter title*, in Book title, edition, volume. Editors name, Ed. Publishing company, Publishing location: page, year.
   Example:
   [1] J. E. Bourne. *Synthetic structure of industrial plastics,* in Plastics, 2nd ed., vol. **3**. J. Peters, Ed. New York: McGraw-Hill, 15-67, (1964).
   [2] M Abdel-Aty: *Quantum Information Prossing,* in Plastics, 9th ed., vol. **5**. J. Peters, Ed. New York: McGraw-Hill, 1-61, (2001).

✓ **Articles from Conference Proceedings (published)**
   Author(s). *Article title,* Conference proceedings, page, year.
   Example:
   [1] D.B. Payne and H.G. Gunhold. *Digital sundials and broadband technology*, in Proc. IOOC-ECOC, 557-998, (1986).

✓ **Papers Presented at Conferences (unpublished)**

Author(s). *Paper's title*, Conference name, Location, year.
Example:
[1] B. Brandli and M. Dick. *Engineering names and concepts,* presented at the 2nd Int. Conf. Engineering Education, Frankfurt, Germany, (1999).

✓ **Standards/Patents**
Author(s)/Inventor(s). *Name/Title*. Country where patent is registered. Patent number, date.
Example:
[1] E.E. Rebecca. *Alternating current fed power supply*. U.S. Patent 7 897 777, Nov. 3, (1987).

✓ **Dissertations and Theses**
Author. *Title*. Degree level, school, location, year.
Example:
[1] S. Mack. *Desperate Optimism*. M.A. thesis, University of Calgary, Canada, (2000).

Authors Biography:

▪ Author short biography and recent photo with white background should be used (Passport Photo)

Example:

Professor Mahmoud Abdel-Aty completed his doctorate in quantum optics at Max-Plank Institute of Quantum Optics, Munch, Germany in 1999. He received the D. Sc. (Doctor of Science), in 2007. His current research interests include quantum resources, optical and atomic implementations of quantum information tasks and protocols. He has published more than 240 papers in international refereed journals, 14 book chapters and 2 books. Abdel-Aty's research has been widely recognized and he has received several local and international awards. In 2014 he has been elected as a vice-president of the African Academy of Science.

Dr. Susan Jing completed her doctorate in economic at University of Reggio Calabria. She was the Founder and Director of MEDAlics, Research Canter of Mediterranean Relations and Vice Rector at University Dante Alighieri of Reggio Calabria. She is referee and Editor of several international journals in the frame of pure and applied mathematics, applied economics. Her main research interests are: dynamical systems, patterns of growth and sustainable development, economics, game theory, applied economics, differential geometry and applications, geometric dynamics and applications.