



Title of the Manuscript

First Author^{1*}, Second Author² and Third Author²

¹*FAuthor Department, FAuthor University, City, Country*

²*SAuthor Department, SAuthor University, City, Country*

**Corresponding author*

Abstract

The manuscript should contain a self-contained abstract and should not exceed 200 words. Please do not include any references and make sure it serves as both a general introduction to the subject and a quick, non-technical review of the important findings and their consequences.

Keywords: Use about five key words or phrases in alphabetical order, Separated by Semicolon.

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- Methods
- Results and Discussion (without subheadings)
- Conclusion

The main body of content should then be followed by:

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- Author contributions (names must be given as initials)
- Additional Information (including a Competing Interests Statement)
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Theorem 1.1 (Cauchy). The first theorem . . . - the theorems are written in italic style.

Theorem 1.2 ([1]). The second theorem . . .

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Lemma 1.4. The lemma – again in italic style.

Proof. The environment “proof” is defined automatically.

Proof of Theorem 1.1.

The environment “proof” is defined automatically and the word “Proof” can be changed as optional argument.

Remark 1.5. You can also very simply to define unnumbered environments.

In the literature there are a number of integral transforms and widely used in physics, astronomy as well as in engineering. The integral transform method is also an efficient method to solve the differential equations.

Recently, Wavelet transforms have been implemented successfully in the areas of sound processing, signal analysis, data compression (see, for details, [1], [2] and the references cited therein). Using the notation of inner product, the wavelet transform of a function $f(t)$ can be expressed as

$$W_{\varphi} f(a, b; s, u) = \langle f, \varphi \rangle = \frac{1}{\sqrt{s}} \int_{-\infty}^{\infty} f(t) \varphi^* \left(\frac{t-u}{s} \right) dt, \quad (1.1)$$

where $u \in \mathbb{R}$ is a translation parameter and the symbol $s > 0$ represents the scaling or dilating parameter, which determines the time and frequency resolutions of the scaled base wavelet $\varphi \left(\frac{t-u}{s} \right)$. The specific values of s are inversely proportional to the frequency.

2. Conclusion

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Books:

O'Neill, B. *Semi Riemannian geometry with applications to relativity*, Academic Press, Inc. New York, 1983.

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Babichev, S. A., Ries, J. & Lvovsky, A. I. Quantum scissors: teleportation of single-mode optical states by means of a nonlocal single photon. Preprint at <https://arxiv.org/abs/quant-ph/0208066> (2002).

Acknowledgement

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Examples of declarations are:

The author(s) declare no competing interests.

References

- [1] O'Neill, B. *Semi Riemannian geometry with applications to relativity*, Academic Press, Inc. New York, 1983.
- [2] Hacısalihoglu, H. H. *Diferensiyel geometri*, Cilt I-II, Ankara U niversitesi, Fen Fakultesi Yayınları, 2000.
- [3] Schott, D. H., Collins, R. N. & Bretscher, A. Secretory vesicle transport velocity in living cells depends on the myosin V lever arm length. *J. Cell Biol.* **156**, 35-39 (2002).
- [4] Bellin, D. L. et al. Electrochemical camera chip for simultaneous imaging of multiple metabolites in biofilms. *Nat. Commun.* **7**, 10535; 10.1038/ncomms10535 (2016).
- [5] Babichev, S. A., Ries, J. & Lvovsky, A. I. Quantum scissors: teleportation of single-mode optical states by means of a nonlocal single photon. Preprint at <https://arxiv.org/abs/quant-ph/0208066> (2002).