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Title of the Manuscript

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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.

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

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Theorem 1.1 (Cauchy). The first theorem . . . - the theorems are written in italic style.

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Lemma 1.4. The lemma – again in italic style.

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Proof of Theorem 1.1.

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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.

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

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Acknowledgement

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Examples of declarations are:

The author(s) declare no competing interests.

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