

## SAMPLE ARTICLE FOR ACTA ELECTROTECHNICA ET INFORMATICA

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## ABSTRACT

*The body of the manuscript should be preceded by an abstract limited to about 10 lines, followed by up to 6 keywords. It should be written with great care. Particular emphasis should be put on concise description of the subjects studied, new methods used, and new or unusual results and conclusions.*

**Keywords:** about 6 items

## 1. INTRODUCTION

The topics of the article should be defined clearly and short review of published essential solutions and comparison with the authors results should be given.

## 2. SUBJECT

The author presents his main ideas, mathematical formulations and their derivation.

## 3. METHODS

This part includes the data on the measuring method and instruments as well as experimental results.

## 3.1. Tables

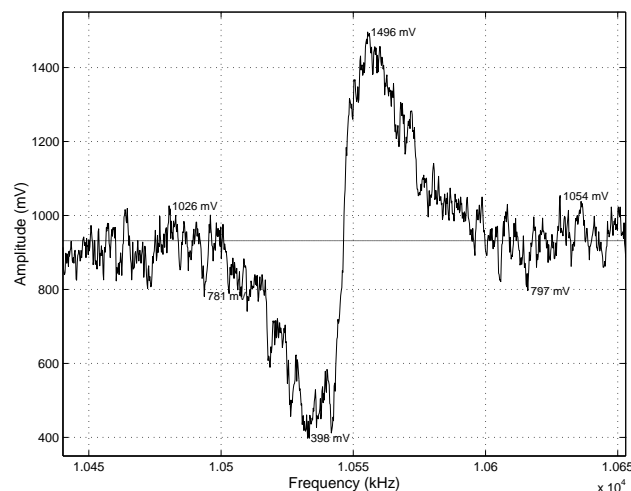
Refer to all tables in the text but design each table so that it is complete in itself.

**Table 1** Some examples for use upright fonts [1]

units	$3.1 \text{ g cm}^{-3}, 3.4 \text{ mV}$
prefixes and constants	$2 \mu\text{m}, \sin(2\pi f)$
prefix “femto” ( $10^{-15}$ )	
requires kerning \	fF, fW, fH, fT
functions and differential	
in integration	$\int_0^\pi \text{tg}(\cos x) \text{d}x$
second derivative of $f(x)$	$\text{d}^2 f / \text{d}x^2, \frac{\text{d}^2 f}{\text{d}x^2}$
total differential of $f(x, y)$	$\frac{\partial f}{\partial x} \text{d}x + \frac{\partial f}{\partial y} \text{d}y$
exponent e	$e^{5x}$
imaginary unit i, j	$e^{-i5x}, e^{j\pi} + 1 = 0$
real and imaginary part of $z$	$\text{Re } z, \text{Im } z$
text in subscripts	$V_{R_E}, \theta_{\text{tr}}$
text in superscripts	$2^{\text{nd}}, 3^{\text{rd}}$

## 3.2. Figures

Figures should be provided in EPS (EPS 3.0 with no preview, or PS Level 2 are recommended), PDF, PNG or JPEG format. Use JPEG compression only for photographs; if the scanned image contains sharp transitions, lines or text, use EPS or PDF. For layout of the figures PostScript fonts Times, Helvetica and Symbol are recommended (see Fig. 1 and 2)



**Fig. 1** First derivative of NMR spectrum

## 4. RESULTS

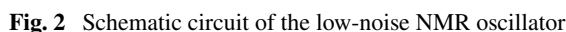
Results should be summarized briefly and main authors scientific contributions should be demonstrated.

## 5. DISCUSSION/CONCLUSIONS

The author presents a critical analysis, interpretation and evaluation of the obtained results. The results should be summarized briefly and author's scientific contribution should be indicated.

## ACKNOWLEDGEMENT

The author of the aei.cls Dr. Ladislav Ševčovič thanks Dr. Ján Buša for his discussions and help on the L<sup>A</sup>T<sub>E</sub>X typography system environments.



## REFERENCES

- [1] BECCARI, C.: *Typesetting mathematics for science and technology according to ISO 31/XI*, TUGboat **18**, No. 1 (1997) 39–48 <http://www.tug.org/TUGboat/Articles/tb18-1/tb54becc.pdf>
- [2] GRÄTZER, G.: *Math into L<sup>A</sup>T<sub>E</sub>X*. An Introduction to L<sup>A</sup>T<sub>E</sub>X and M<sup>A</sup>S-L<sup>A</sup>T<sub>E</sub>X. Birkhäuser Boston, 1996, ISBN 0-8176-3805-9 [http://fmi.uni-sofia.bg/fmi/or/TeX/Gratzer\\_Math%20into%20LaTeX.pdf](http://fmi.uni-sofia.bg/fmi/or/TeX/Gratzer_Math%20into%20LaTeX.pdf)

Received December 12, 2022, accepted February 24, 2023

**Jozef Mrkvíčka** was born in 1966. In 1991 he graduated (MSc) with distinction at the department of Computers and Informatics of the Faculty of Electrical Engineering and Informatics at Technical University in Košice. He defended his PhD in the field of programming device and systems in 2000; his thesis title was “Diagnosis of compound systems using the Data Flow applications”. Since 1995 he is working as a tutor with the Department of Computers and Informatics. His scientific research is focusing on parallel computers of the Data Flow type. In addition, he also investigates questions related with the diagnostics of complex systems.