

UDC 53 (05) = 20 + 861/6

YU ISSN 0015—3206
FZKAAA 12 (S3) (1980)

A JOURNAL OF EXPERIMENTAL AND
THEORETICAL PHYSICS

Volume 12 Supplement 3
1980

Contributions to the Symposium: »The Presence of Albert
Einstein's Thought in Modern Physics«
Beograd, September 14—15, 1979



EUROPHYSICS JOURNAL

Published by the Commission for Physics of the Yugoslav Union of
Mathematical and Physical Societies and the National Committee
of IUPAP

FIZIKA

a journal of experimental and theoretical physics

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The Journal is published in quarterly issues by the Commission for Physics of the Yugoslav Union of Mathematical and Physical Societies and the National Committee of IUPAP. The Journal is sponsored by the Federal Council for Coordination of Scientific Activities and Self-Managed Community of Interest for Science of S. R. Croatia. Manuscripts for publication should be submitted to: the Editor, Fizika, 41000 Zagreb, Bije- nička c. 54, Yugoslavia.

Proofs and all correspondence concerning papers in the process of publication should be sent to the same address.

Subscription rate per volume (four issues) \$ 30. For Yugoslavia: individuals Dinars 120, members of the Yugoslav Union of Math. and Phys. Societies Dinars 80, institutions Dinars 500.

Subscription should be sent:

- in Dinars to the Bank account No. 30102—678—4202 (za Fiziku);
- payment in foreign currency by cheque direct to the Editorial office, or by means of an international postal money order addressed to:
»MLADOST« Export-Import, 41000 Zagreb, Ilica 30, Yugoslavia,
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S Y M P O S I U M

Beograd, 14-15 September 1979.

THE PRESENCE OF ALBERT EINSTEIN'S THOUGHT
IN MODERN PHYSICS

Einstein's birth centenary

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F o r e w o r d

In 1979 a great number of anniversary meetings on the occasion of Einstein's birth centenary was held all over the world. Yugoslav symposium dedicated to the memory of great thinker was jointly organized by the Institute of Physics, Beograd, Department of Physics and Meteorology, Faculty of Science, Beograd and the Laboratory for Theoretical Physics, B. Kidrič Institute, Vinča and was held at the People's Library of SR Serbia, Beograd. Symposium gathered many Yugoslav physicists, astrophysicists, mathematicians, philosophers and other scholars, who discussed Einstein's contributions to the contemporary science and influence of his ideas on the present day physics, adjoining sciences and the intellectual sphere of our time in general.

The programme consisted of contributed papers and seven introductory talks:

Z. Marić: *Albert Einstein*

Lj. Dobrosavljević: *Quantum statistics*

F. Herbut: *The conceptual basis of Quantum mechanics*

M. Leko: *Special relativity*

M. Blagojević: *General relativity*

Dj. Živanović: *Problems of relativistic cosmology*

Dj. Šijački: *Unification of the physical interactions*

which have been published separately. Most of lecturers invoked main Einstein's ideas in the fields of their interests, traced their development up to the present day and then discussed the state of art or relevant problems in contemporary physics and adjoining sciences. The number of the invited lectures and the very diversity of research fields which the contributed papers covered, speak by themselves about the profound influence of Einstein's thought on our picture of the physical world.

Although the topics discussed at Symposium did not, and could not, cover the entire opus of the great thinker, the range of problems dealt with by the contributors was enough impressive to make the audience feel how wide is the front of modern science, and how profound it was in Einstein's time.

This supplement provides more or less extended abstracts of contributed papers (except three of them) presented at the Symposium. Papers: *Milutin Milanković and an attempt for explaining Michelson-Morley's experiment*, by M. S. Dimitrijević and *Some epistemological questions in Einstein's conception of physical reality*, by K. Hasić, will be published in DIJALETIKA (Beograd). The third unpublished title is: *Essence and Supposals*, by Dj. Kurepa. A number of minor interventions have been done in the original texts, but the contributions are generally preserved in the form they have been submitted by authors, including language and style. The appearance of the book of abstracts has been delayed, partly for technical reasons, and we apologize to all contributors for that.

At the Symposium an exhibition of Einstein's original works, photos and other biographic and bibliographic data, was organized by Dr. M. Popović-Božić. A number of items have been kindly provided by Prof. T. Andjelić, who opened the exhibition.

The Symposium has been partly supported by the Community for Science of SR Serbia and by INVESTBANKA. Special thanks are due to Prof. G. Alaga, Prof. V. Šips and Prof. Z. Marić, who have helped this special number of the Supplement of FIZIKA to be published. The editor is grateful to Dr. B. Dragović, Dr. Lj. Dobrosavljević, Dr. D. Popović and Mrs. E. Graor for their help in preparing this issue. Efficient typing of the difficult text by Mrs. R. Kićanović is also acknowledged.

P. Grujić