

lute constant but changes from place to place in the Universe. Such a change would shift the energy levels of atoms and thus the transition frequencies. This assumption however does not explain why the shift is systematically towards the red. Another attempt was made by J.-C. Pecker, J.-P. Vigier et al. from Paris: they assume a new type of inelastic interaction between the photon and a new massive boson. In these interactions the photon would lose an energy $\Delta E = h \Delta \nu$ and thus be redshifted. This explanation has for the moment no sound theoretical foundation and moreover is rather ad hoc; for example, it does not explain why galaxies from the *Stephan's Quintet* are so much redshifted while other very similar galaxies are not. So there is no satisfactory explanation and the mystery remains complete.

But is there a hope to cut the Gordian knot? Are we condemned to stay with these few observations and remain unable to draw a conclusion? Fortunately not. Several new observations are possible, namely to confirm or to infer from new techniques the connections listed in Table I and to determine by the methods mentioned above or by other ones, the distances of the galaxies having a discrepant redshift.

* Note from the author:

This last method has very recently been applied to galaxy B. The result is in agreement with the Hubble law and thus in contradiction with the measurement of Arp.

ELEMENTARY PARTICLES AND HIGH ENERGY PHYSICS

A research position of Maître de Recherche is open at the CNRS Center of Theoretical Physics in Marseille.

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Meetings

For a full list of events see the latest Meetings Issue of *Europhysics News* 5, 5 (May 1974). Notification of the meetings announced in this issue has been received recently.

The order of information is: date, title, venue, and contact for information.

Conferences 1974

26 - 27 September

Interdisciplinary Symposium on the Measurement of Molecular Oxygen
Odense, Denmark
H. Degn, Institute of Biochemistry, Odense University, Niels Bohrs Alle, DK - 5000 Odense

29 September - 3 October

6th Bulgarian Conference on Spectroscopy
Sunny Beach, Burgas, Bulgaria
Organizing Committee of 6th Bulgarian Conference on Spectroscopy, 72, Boulevard Lenin, Sofia 13

18 - 20 November

4th All Union Accelerator Conference
Moscow, USSR
A.L. Mintz, Committee Chairman, USSR Academy of Sciences, Leninskiy Prospekt 14, Moscow B - 71

16 - 20 December

Light Scattering Studies of Motion in Molecular Systems
Verbier, Switzerland
E. Courtens, IBM Research Laboratory, Säumerstrasse 4, CH-8803 Rüschlikon

1975

24 - 26 March

Nuclear Interactions at Medium and Low Energies
Harwell, UK
The Meetings Officer, The Institute of Physics, 47, Belgrave Square, London SW1X 8QX

21 - 25 April

First European Nuclear Conference — The Maturity of Nuclear Energy
Paris, France
P. Zaleski, European Nuclear Society, B.P. No. 27, F-92140 Clamart

June

Molecular Energy Transfer
J.P. Toennies, Max-Planck-Institut für Strömungsforschung, 6-8, Böttingerstrasse, D-34 Göttingen, Fed. Rep. Germany

3 - 7 June

5th International Conference on Atomic Masses and Fundamental Constants (AMCO - 5)
Paris, France
P. Grivet, AMCO-5, Institut d'Electronique Fondamentale, Bâtiment 220, Université Paris-Sud, F-91405 Orsay

16 - 18 July

3rd International Seminar on Ion-Atom Collisions (ISIAC)
Stanford, Cal., USA
F.T. Smith, Stanford Research Institute, Menlo Park, Cal. 94025

24 - 30 July

9th International Conference on the Physics of Electronic and Atomic Collisions (ICPEAC)
Seattle, Wash., USA
R. Geballe, Department of Physics, University of Washington, Seattle, Wash. 98195

18 - 21 August

3rd International Conference on Vapour Growth and Epitaxy
Amsterdam, The Netherlands
C.J.M. Rooymans, Philips Research Laboratories, Bldg. WA, Eindhoven

18 - 22 August

12th International Conference on the Phenomena in Ionized Gases
Eindhoven, The Netherlands
F.J. de Hoog, Technische Hogeschool Eindhoven, P.O. Box 513, Eindhoven

25 - 29 August

3rd International Conference on Thin Films — Basic Problems, Applications and Trends
Budapest, Hungary
Organizing Committee ICTF-3, P.O. Box 76, H-1325 Budapest

25 - 29 August

International Conference on Statistical Physics
Budapest, Hungary
P. Szépfalusy, Institute for Theoretical Physics, Eötvös University, Puskin u. 5-7, H-1088 Budapest

'Summer' Schools 1974

15 - 20 September

Thermal Neutron Scattering
Harwell, UK
B.T.M. Willis, Atomic Energy Research Establishment, Harwell, Didcot, Oxfordshire

15 - 25 September

Workshop on Weak Interactions with Very High Energy Beams
St. Wolfgang, Austria
H. Pietschmann, Institut für theoretische Physik, Boltzmannngasse 5, A-1090 Vienna

30 September - 3 October

Charge Transfer Devices
Heverlee, Belgium
E. Laes, C.T.D. Course, Laboratorium Fysika en Elektronika van de Halfgeleiders, Kardinaal Mercierlaan 94, B-3030 Heverlee

1975

28 July - 5 August

International Summer School on Crystallographic Computing
Prague, Czechoslovakia
F.R. Ahmed, Division of Biological Sciences, National Research Council of Canada, Ottawa, Canada K1A 0R6

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