

Professor Oriol Bohigas
Institut Physique Nucléaire
B.P. 1
91406 Orsay Cedex
FRANCE

Dear Oriol,

It was a nice few days in Cuernavaca, wasn't it. I really miss you sometimes. Hoping to meet you in Siberia!

The quantization of magnetic flux, we discussed, was a confusion as I understand now. The flux needs not to be generally quantized. Moreover, if you change flux by one quantum nothing would change in the motion. So, Berry could take any flux in his model, and so can you in yours. Still, I believe that the transitional statistic you are studying is very interesting and important, and Berry missed this problem.

I don't remember whether I have given you my paper on chaotic eigenstates in atoms. Anyway, I am enclosing two copies, one for you, and another one for your neighbour, Dr. J. Blaise (Laboratoire Aimé Cotton, CNRS II, Bâtiment 505, 91405 Orsay), and I wonder if you could give him this copy on occasion. The point is that in this my paper I used a beautiful atlas of Atomic Energy Levels for Rare-Earth Elements compiled by W.C. Martin et al in the USA. I am very much interested in similar data for Actinide Elements where I would expect much more chaos. Dr. Martin told me that Dr. Blaise may have such data. Could you ask him if those data are really available? In the data the crucial point to me are the so-called leading percentages (basic states) which characterize atomic eigenfunctions. We could look for that sort of chaos in atoms together if you are curious enough in this problem.

Love

Boris

Boris Chirikov

20/11 86.

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NUCLÉAIRE

B.P. N° 1 - 91406 ORSAY CEDEX - Tél. direct : (1) 69417349

October 21, 1986

*Division de
Physique Théorique*

Prof. Boris Chirikov
USSR Academy of Sciences
Siberian Division
Institute of Nuclear Physics
Novosibirsk 90, USSR

Dear Boris,

I have been involved in the problem of billiards with magnetic fields last time, and I am getting very much interested in the hydrogen atom with magnetic field, which probably is one of the most beautiful examples of chaotic motion one can think about. But I am interested in too many problems and, as a consequence, I may be just doing brownian motion with no convergence to specific results.

As we discussed in Cuernavaca, I am ready to apply at CNRS (Centre National de la Recherche Scientifique) for a visit to USSR next Spring : 3 weeks at Novosibirsk at your Institute and I week in Moskow (Landau Institute, where Professor Sinai works). A good period for me would be ~ April 15 - May 15. I would appreciate to hear from you if you are still interested in my visit. I am, I hope you too.

All best wishes,

oriol

Oriol Bohigas

P.S. The deadline at CNRS for my application is quite soon.

Date: Wed, 11 Mar 92 13:08:20 EST
From: Oriol Bohigas <BOHIGAS@FRCPN11.IN2P3.FR>
Subject: Re: Siberian greetings
To: CHIRIKOV <chirikov@vxinp.inp.nsk.su>

DEAR BORIS: THANK YOU FOR THE VERY NICE PRESENT THAT I
FINALLY GOT AS WELL AS FOR THE PAPERS.
FROM YESTERDAY ON YOU HAVE AT YOUR DISPOSAL A SUM OF
1958 FRENCH FRANCS AND 10 CENTIMES
COMING FROM ERNA. NON SIBERIAN GREATINGS ORIOL

Date: Thu, 22 Oct 92 11:49:41 MET
From: Oriol Bohigas <BOHIGAS@FRCPN11.IN2P3.FR>
Subject: Re: Siberian greetings
To: CHIRIKOV <chirikov@vxinp.inp.nsk.su>

Dear Boris:

I got for your lectures a check of 1101.31 FF. With the
previous one (1958.10 FF) the total amount is now ³2059.41 FF. !
This is not yet enough for giving me bad temptations.
How are things? Is there some chance that we meet again in
the next (predictable) future?
All the best for you and for your wife. Oriol



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Professor Dr. Dr. h.c. mult.
Achim Richter
Institut für Kernphysik

Fachbereich 5 · Physik

Schlossgartenstrasse 9
D-64289 Darmstadt
Telefon + +49/6151/162116
Fax + +49/6151/164321
e-mail: richter@ikp.tu-darmstadt.de

Technische Universität Darmstadt · Institut für Kernphysik ·
Schlossgartenstrasse 9 · D 64289 Darmstadt

Professor Dr. Boris Chirikov
Academician
The Budker Institute of Nuclear Physics
Acad, Lavrentiev Prospect II
Office: 1P-610

630090 Novosibirsk

Russland

January 12, 2001/rho

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AnTo/A Prof.	Dr. B. Chirikov		
FAX No.	007 383 23421 63		
Von From De	R. Haruel - Jehuicheu		
FAX No.	+49 6151 164321	+49 6151 164707	

Dear Professor Chirikov,

the Physics Department of our University has decided to propose to the Senate and the President of the University to bestow a Honorary Doctorate upon Oriol Bohigas, Director of Research at the CNRS, Laboratoire de Physique Théorique et Modèles Statistiques, Université Paris-Sud, Orsay, France.

For this purpose the Department needs support from respected colleagues from outside who know Oriol Bohigas and can truly judge him and his work. As the head of the special committee formed to prepare the matter for the Senate I therefore ask you kindly to write a letter of recommendation. For your help I enclose a list of publications and a list of invited talks of Oriol Bohigas.

This letter is sent to you by fax and by airmail. I would be grateful to receive your letter of recommendation either by airmail, fax or e-mail at the respective addresses listed in the head of this letter as the latest by March 31, 2001.

Please acknowledge briefly by e-mail the receipt of this material and if you are willing to help us. Many thanks for your kind help in this matter.

My best personal regards,
sincerely yours

Achim Richter

Achim Richter
Professor of Physics

Enclosures: List of Publications and List of Invited Talks of Oriol Bohigas

Professor Dr. Dr. h.c. mult
Achim Richter
Institut fuer Kernphysik
Technische Universitat Darmstadt
D 64289 Darmstadt

Dear Professor Richter,

On your request I am happy to present my highest evaluation of Prof. Oriol Bohigas' scientific achievements, and my strong support of your proposal to bestow upon him a Honorary Doctorate at your University.

Prof. Bohigas is an outstanding world-known researcher in the field of statistical nuclear physics where he is working more than 30 years, and where he has obtained, together with his disciples, many remarkable results, particularly in the theory of spectral fluctuations of chaotic quantum systems.

The main distinction of Bohigas' approach to physical problems is a combination of a simple physical theory, not overloaded by sophisticated mathematical machinery, with skillful numerical experiments on simple but relevant models of complex physical systems. This was especially important in his pioneering research of a deep relation between the already well developed theory of random matrices, a purely statistical one, and the underlying chaotic dynamics, the brand-new, that time, quantum chaos. This put the firm foundations of the contemporary statistical theory of complex quantum systems.

Prof. Bohigas possesses a rare gift to present and explain a complicated problem or results in a very lucid and fascinating form which attracts and even challenges the listeners to join him in research. He is often invited to deliver a course of lectures literally over the world, from Europe and USA to India and South Africa.

The achievements of Prof. Bohigas and his school are well known and recognized in the world community of physicists. I believe, he well matches the high scientific standards of your University. The Honorary Doctorate would be a fair recognition of his important contribution to physics in the last century, and a strong stimulus for farther research in the new millennium.

Sincerely yours, Boris Chirikov

Full Member
the Russia Academy of Sciences

D'r': Thu, 18 Jan 2001 14:02:45 +0100
Nr jncn: "Prof. Dr. Dr. h.c. mult. Achim Richter"
<richter@ikp.tu-darmstadt.de>
Jnls: "Boris V. Chirikov" <B.V.Chirikov@inp.nsk.su>
ReI': Re: Bohigas

Dear Professor Chirikov,

I have been delighted to receive your letter of evaluation of Oriol Bohigas. It is of great value in the process of bestowing a Honorary Doctorate upon him, and I am waiting now for two more letters to arrive from colleagues who are like you of highest scientific standing.

I thank you very much for your great effort and remain with my highest personal regards,
sincerely yours

Achim Richter

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Professor Dr. Dr. h.c. mult. Achim Richter
Institut fuer Kernphysik
Technische Universitaet Darmstadt
Schlossgartenstr. 9
D-64289 Darmstadt

Tel.: xx49-6151-162116
Fax : xx49-6151-164321
Email: richter@ikp.tu-darmstadt.de
<http://www.ikp.physik.tu-darmstadt.de>
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