

АЗЭРБАЙЖАН ССР
ЕЛМЛЭР АКАДЕМИЈАСЫ

Мəһəммəd Нəсрədдин Туси адына
ШАМАХЫ АСТРОФИЗИКА
РЭСЭДХАНАСЫ

АзССР, Шамахи шəһ., Юсиф Мəммədəлијев гəсəбəsi
тел. Шамахи, рəсədхана

АКАДЕМИЯ НАУК
АЗЕРБАЙДЖАНСКОЙ ССР

ШЕМАХИНСКАЯ АСТРОФИЗИЧЕСКАЯ
ОБСЕРВАТОРИЯ

им. Мухаммеда Насреддина Туси

АзССР, г. Шемаха, пос. Юсифа Мамедальева
тел. Шемаха, обсерватория

№ 32/161

«11» July 1990 г.г.

PROFESSOR XANTHOPOULOS B.C.

CHAIRMAN OF THE DEPARTMENT OF PHYSICS
OF THE UNIVERSITY OF CRETE
HERAKLION 71409
CRETE, GREECE

Dear professor XANTHOPOULOS!

We would like to invite you to visit the Shemakha Astrophysical Observatory of the Academy of Sciences of Azerbaijanian SSR, for a period of two weeks in october-november 1990. During your stay in USSR you are also supposed to visit Moscow State University. All your local expenses included transportation fare inside USSR will be covered by us. Please, contact with us and with professor Gal'tsov D.V. to arrange the details of your visit.

Sincerely yours,

Director



AKHMEDOV SH.B.

ΕΚΘΕΣΗ
του Βασίλη Κ. Ξανθόπουλου
Καθηγητή Φυσικού Τμήματος Πανεπιστημίου Κρήτης
και μέλος του ΙΗΔΑ του ΙΤΕ.

Για το επιστημονικό ταξίδι του στη Σοβιετική Ένωση από 30 Οκτωβρίου - 15 Νοεμβρίου 1990.

Το ταξίδι περιέλαβε επισκέψεις στις πόλεις Moscow, Leningrad, Baku και Shemakha. Πραγματοποιήσα επισκέψεις στα ιδρύματα

- Moscow State University
- Steklov Mathematical Institute
- Institute for space research (IKI)
- Friedmann laboratory of the scientific-technical Center "computing"
- Institute of Mathematics and Mechanics in BAKU
- Shemakha Astrophysical observatory
- City Section of Shemakha Astrophysical Observatory
- Intercosmos Council

Επίσης συναντήθηκα με επιστήμονες από άλλα Ιδρύματα όπως τα

- Lumumba University
- Institute for problems in Mechanics
- Landau Institute
- National gravitational association of USSR Council of ministers

Έδωσα δύο σεμινάρια και ένα colloquium :

- Black hole solutions when gravity is coupled to different scalar fields (Moscow University)
- Two black holes attached to cosmic strings (Institute of Mathematics and Mechanics in BAKU)
- Collisions and scatterings of gravitational waves (Shemakha Astrophysical Observatory)

Στο Institute for Space Research παρακολούθησα μέρος του δευτέρου συνεδρίου για την αποστολή MAPC94 και την οριστική επιλογή των πειραμάτων που θα συμπεριληφθούν στο rover. Το πείραμα α -x scattering για την χημική ανάλυση της επιφάνειας του πλανήτη APH συμπεριλήφθηκε και η συμμετοχή της Ελλάδας στο εν λόγω πείραμα εισηγοποιήθηκε.

Η γενική εικόνα είναι η εξής : Υπάρχει πολύ και πάρα πολύ καλό ανθρώπινο δυναμικό σε θεωρητική φυσική και μαθηματικά. Αντίθετα, η ερευνητική υποδομή είναι πενιχρή και η υπολογιστική υποδομή συνολικά ανύπαρκτη. Από μεριάς των υπάρχει τρομερό ενδιαφέρον για ανάπτυξη συνεργασιών που πρέπει να ενισχυθεί από την Ελληνική κυβέρνηση. Αλλά σχεδόν πάντοτε ζητούν επισημοποίηση της συνεργασίας με την υπογραφή πρωτοκόλλου.

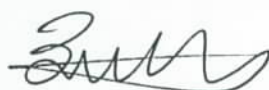
Τα Ελληνικά Ιδρύματα έχουν να ευνοηθούν περισσότερο από Σοβιετικούς Επιστήμονες που έρχονται για επισκέψεις στην Ελλάδα και συνεργάζονται στενά με τους Έλληνες Επιστήμονες στο εργαστήριο, στο γραφείο, ή μπροστά στον computer. Καλά είναι η διάρκεια των επισκέψεων αυτών να μετριέται σε εβδομάδες ή μήνες, και όχι σε ημέρες. Οι επισκέψεις Ελλήνων επιστημόνων στη Σοβιετική Ένωση είναι χρήσιμες κυρίως για πρώτη γνωριμία με νέους και καλούς επιστήμονες, ανταλλαγή πληροφοριών, και παρακολούθηση επιστημονικών συνεδρίων. Εμείνα έκκληκτος, π.χ., από την πληθώρα των επιστημονικών συνεδρίων που διοργανώνονται κάθε χρόνο στη Σοβιετική Ένωση στον κλάδο μου.

Νομίζω ότι πρέπει να δοθεί μια ευρεία έννοια στη λέξη "αμοιβαιότητα", όταν αυτή καθορίζει μορφωτικές ανταλλαγές με τη Σοβιετική Ένωση. Οι επισκέψεις των Σοβιετικών στην Ελλάδα καλό είναι να είναι εν γένει μεγαλύτερης διάρκειας απ'ότι οι επισκέψεις των Ελλήνων στη Σοβιετική Ένωση. Η ζωή είναι δύσκολη στη Σοβιετική Ένωση και δεν φαντάζομαι ότι Έλληνας θα πήγαινε - εν γένει του - για διάστημα μεγαλύτερο των τριών εβδομάδων. Παρά τις δυσκολίες που αντιμετωπίζουν, η φιλοξενία που μου πρόσφεραν ήταν εξαιρετική.

Για να αποδώσουν καλύτερα οι επιστημονικές ανταλλαγές είναι βασικό οι επιστήμονες να προσκαλούνται από την χώρα υποδοχής.

Ηράκλειο 21 Νοεμβρίου 1990

Με εκτίμηση



Β. Ξανθόπουλος
Καθηγητής και Πρόεδρος
Φυσικού Τμήματος
Πανεπιστημίου Κρήτης

Project

C O N T R A C T

on collaboration between the Hevakiion (Krete) University and Institute of Mathematics and Mechanics of Academy of Sciences of Azerbaijan SSR. (USSR)

Wishing to intensify the effectiveness of research contacts between the Hevakiion (Krete) University and Institute of mathematics and Mechanics of AS of Azerb.SSR, the two above mentioned organizations decided to conclude the following contract on collaboration.

CLAUSE I.

The two sides will regularly exchange of information in the research works for the purpose of assistance of forming of highly skilled specialists.

CLAUSE 2.

The two sides will inform each other on publications, new results, also on Conferences in mathematics, and related topics.

CLAUSE 3.

The two sides confirm their desire to take part in collaboration of investigations on problems representing a general interest in the domain of mathematics and physics:

a) Spectral theory of ordinary and partial differential operators. Theory of nonselfadjoint operators. Inverse scattering problems for the ordinary differential operators. Qualitative theory of operators differential equations. Mathematical problems theory of elasticity. Mathematical problems of statistical physics and dynamical problems of mathematical economics (Chairman Faramaz Maksudov, Academician-professor)

b) Theory of nonlinear partial differential equations. Global stability and instability solutions of infinite dimensional systems.

Blowing-up solutions of non-linear equations of mathematical physics. Attractors for non-linear evolution equations. Global behaviour of solutions of non-linear partial differential equations arising in combustion theory, biology, hydrodynamics, theory of elasticity and thermoelasticity, theory of superconductivity. (Chairman professor Varga K. Kalantarov)

c) Theory of singular integral operators. Theory of pseudodifferential operators. Harmonic analysis. (professor Akif Gadjiev)

d) Theoretical Astrophysics and exact solution of the equation of General relativity. (Dr. A.N. Aliev)

4. Institute of Mathematics and Mechanics can provide the possibility for post graduate-students from Heraklion University also can open post doctoral positions in topics mentioned above.

5. Financial part.

Institute of Mathematics and Mechanics will be cover all local expenses for visiting specialists from Heraklion University inside Soviet Union.

- Monday, 29/10/90, Afternoon Iraklion - Athens
- Tuesday, 30/10/90, Athens - Frankfurt - Moscow. Meeting Rudi and Wänke on the plane. Meet by Galtsow + Alier at the airport. Checking at the Academy hotel, Dinner with Dmitri's family. Checking in flat - Azerbaijan - back to the hotel.
- Wed 31/10/90, Met by Yuri Alexseer, Steklov Institute. Meeting there Dmitry. Lunch at MSU. Meeting Galtsow's students at MSU. Visit S... monastery. Visit center of Moscow. Meeting Olga Theater. meet ~~teber~~ Alberto Garcia.
- Thursday 01/11/90: Call V.E. Zakharov, Lev Mukhin. Meeting Valerie Levin Maandrus, Red Square, two monasteries. Dinner at Club of Academy of Sciences of USSR. Visit Arbost. French opera.
- Friday 02/11/90: Going to I.K.I. Lev Mukhin + Gemans. Attending second half of meeting on Rover in MAPC 94. Short meeting with ~~Bralev~~. Lunch with V.E. Zakharov + wife. Problems with (i) buying an apartment - Getting a visa for June 2. I should call the Greek Embassy in Moscow. Seminar at 5 at MSU. Supper in a fancy restaurant, with 5 more scientists. 12:00 midnight train for Leningrad. Sharing the camp with academician in Engineering, from Leningrad, working on fusion.
- Saturday 03/11/90: Met in Leningrad by Vladimir Mostepanenko. Galia (wife) atomic physics theory, and daughter Olga. Staying in their apartment. Visit Hermitage Museum, Russian Museum. Dinner with them. Beriozka shop! Ballets with Olga at night.
- Sunday 04/11/90: with Olga at Alexander Nevsky monastery, cemetery of Cheikovsky + Postoyevsky, meeting Galia, the Peter-Paul fortress. Cathedral, Mint, Prison. Aurora Cruise ship. Dinner at their house, with Vladimir at St Isaac Cathedral, Peter I monument, e.t.c, admiralty, walking Nevsky Prospect, The Smolny church, convent, and institute, headquarters of the Lenin Communist party. Back to their home. Discussions about their new institute (Izurnal Suvain), The method of Atomic Force Microscopy. At midnight we take the train back to Moscow.

Monday 05/11/90: 8:30' arriving in Moscow. Met by Dima at the Station → home for a few hours. Calling Mrs Athanasiadi and Kharitonov. With Aleksejev in Steklov Mathematical Institute (the other half of Steklov is in Leningrad headed by Faddeev). In the afternoon visit to Kharitonov (Intercosmos). Informs me that there will be a meeting on MAPC 94 in January. Visiting the churches within the Kremlin. Stroll in Red Square, GUM stores. Performance by new Bolshoi theater in the Palace of Congress.

Tuesday 06/11/90: Short visit to Zakharov, to take his papers. To the Greek Embassy, meeting Mrs Athanasiadi. Tickets for the performance of the old Bolshois at noon but performance has been postponed to the 08th. With Aleksejev visiting Puskin Museum + Large Exhibition Hall. Meeting Kirill Bronnikov, dinner at a state restaurant. Meeting Dima at six at Puskin square, opera at the old Bolshoi theater with Dima and Aleksejev. Supper with the Galtsov family at their apartment.

~~Wed.~~ Wed. 07/11/90: 73rd anniversary of the Revolution. Watch the parade at home. Trying to go to the center of Moscow, no way. Hanging around Moscow. Dinner with the Sibgatullins. Present Galtsov, Alberto Coariza Diaz, Professor Mitsievich (o uadyms na Tsabinov) na formira ani Azerbaijan. Watch the fireworks and the TV news.

Thursday 08/11/90: Excursion to Suzdal, capital of the region during 12-15 centuries, accompanied by Evgeny (Zhenya) Donets.

Friday 09/11/90: Revi, dinner with Zakharov. Me Dima + Aliev on Azerbaijan. no Baku, Zhenya on Azerbaijan.

Saturday 10/11/90: Zhenya on Baku, notes + via notes, rapata Karnias, Maiden Tower, Tsar's palace, pa reports with to Alikram, knabzani nrotopiur.

Sunday 11/11/90: no Baku, Revi notes, oto knabzani to Alikram

Monday 12/11/90: 10 a.m. Zhenya on Mathematical Institute, Two black holes attached to cosmic strings. Sulttanov reports na matematik (Vice Director) of non-linear differential equations. Knabzani Zhenya pa Shevacha ~~knabzani~~ astrophysical lab Meeting ~~Rozit~~ reports na learn.

Tuesday 13 1990: 10 a.m. Colloquium, Collisions and Scatterings of
gravitational waves. Eruption on Kaspomonia. Anjeta on
subsidence zur 200 am. Brixon nalle's Sira ones pattern.

Wed. 14 1990: 10 a.m. eruption and Shemachx ja Baku. Eto
Baku outman te suantaino f... (Functional analysis,
differential equations). Ditor spursualla. Erimon Sultanon,
va aate f... CCD u... 6 p.m. eruption ja Mossa,
flight 2^h 40^m. Dinner on Galtov.

Thur 15 1990: Axxupum 7:15' and erin, with Gator. Meeting V. Khebitov
on Spoko. Axxupum Axxupum, 10:30' ja Vienna uou
O.A. 14:10 ja Axxa uou 7:30 p.m. ja Heudero.