

The Marcello's first 80 years

The Marcello's first 80 years



The Marcello's first 80 years

The title of my contribution was changed from

The title of my contribution was changed from
A journey into Marcello's scientific career

The title of my contribution was changed from
A journey into Marcello's scientific career
in to

The title of my contribution was changed from
A journey into Marcello's scientific career

in to

Ricordi e Aneddoti ...

The title of my contribution was changed from
A journey into Marcello's scientific career

in to

Memories and Anecdotes ...

The title of my contribution was changed from
A journey into Marcello's scientific career
in to
Memories and Anecdotes ...



The title of my contribution was changed from
A journey into Marcello's scientific career
in to
Memories and Anecdotes ...



Marcello,
Can you give me
some hint?

The title of my contribution was changed from
A journey into Marcello's scientific career
in to
Memories and Anecdotes ...



Marcello Baldo Homepage



The life of future generations is on our shoulders !

Marcello Baldo Homepage



The life of future generations is on our shoulders !

I did not know whether I could have enough space and time to show Marcello's Curriculum Vitae et Studiorum.

Marcello Baldo Homepage



The life of future generations is on our shoulders !

I did not know whether I could have enough space and time to show Marcello's Curriculum Vitae et Studiorum. But since Marcello is a man of few words (the essential ones), I think I can show what he wrote in his web page about it

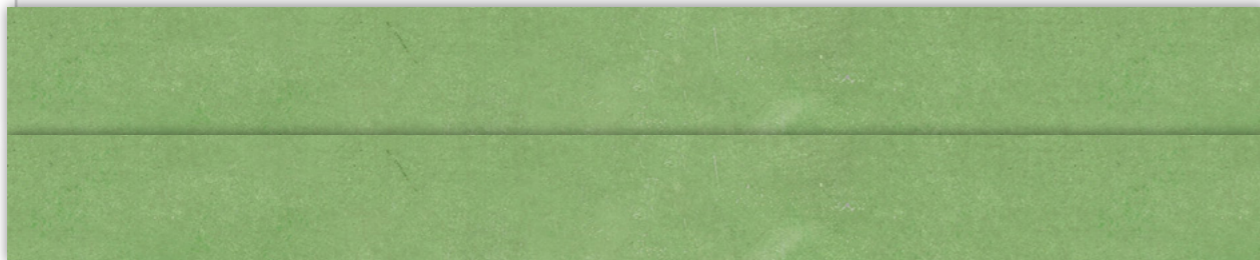
Marcello Baldo Homepage



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CURRICULUM VITAE ET STUDIORUM of Dr. Marcello Baldo

Dr. M.Baldo graduated at the University of Catania
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A large, stylized number '50' in a light blue color. The '0' is composed of several concentric circles. Inside the '0', the years '1971' and '2021' are stacked vertically in a white, sans-serif font. Below the '50', the text 'infn catania' is written in a white, lowercase, sans-serif font. The entire logo is set against a dark blue circular background.

50
1971
2021
infn **catania**

A blue-tinted photograph of the city of Catania, Italy. In the foreground, a prominent white dome with a small spire is visible. The city extends into the distance, with a mountain range in the background under a clear blue sky.

6 settembre 2022



Marcello was the first researcher employed by the
INFN Sicilian Division "Catania Group"

Collaborated with many international Institutions,
- The Niels Bohr Institute,

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- The Niels Bohr Institute,
- ISN in Grenoble,
- Kurchatov Institute in Moscow,
- Academia Sinica in Shanghai,
- University of Liege,
- IPNO in Orsay,
- Instituto Superior Tecnico in Lisbon,
- Texas A&M University,
- Universidad Autonoma de Madrid,
- Zentrum für interdisziplinäre Forschung (ZiF) in Bielefeld,
- IOFFE in St. Petersburg,
- Copernicus Institute in Warsaw.

The scientific activity of Marcello has been devoted to many topics:

- Many-body theory of atoms, molecules and solids
- Structure of nuclei and nuclear matter
- Chaotic motion in nuclear dynamics
- Physics of neutron stars
- Fermion superfluidity
- Structure of correlated fermion systems

- Editor of the book "Nuclear Methods and the Nuclear Equation of State", World Scientific 1999
- An extensive review paper on the important property of nuclear matter
M. Baldo and G.F. Burgio, The Nuclear Symmetry Energy, Progress in Particle and Nuclear Physics 91 203 (2016).
- A chapter of the Book "50 years of nuclear BCS", Eds R.A. Broglia and V. Zelevinsky, in collaboration with E.E. Saperstein.
- Several course of lectures on Neutron Stars and nuclear physics.

That is what I could get from his homepage
most of that was already described and
illustrated by the previous talks.

That is what I could get from his homepage
most of that was already described and
illustrated by the previous talks.

Then I decided to ask the help of a spy.

That is what I could get from his homepage
most of that was already described and
illustrated by the previous talks.

Then I decided to ask the help of a spy.

And the first information that he/she/them
gave to me was this picture ...



Marcello at the elementary school, Venice



Sup. Direzione Distrettuale Venezia



MINISTERO DELLA PUBBLICA ISTRUZIONE

PAGELLA SCOLASTICA

N.

dell' alunno *Baldo Marcello*

figli di *Guido* e di *Borsella Gigliola*

nat. a *Venezia* Comune di *Venesie*

Provincia di *Venezia* il giorno *4. 8. 1963*

frequentante la Scuola elementare "*F. Grignani*"

(classe *II* - sezione) situata in (*via* / *piazza*)

nel Comune di *Venesie* della Provincia

di *Venesie* nell'anno scolastico *1950/*

Data



IL DIRETTORE

S. Ober...

MATERIE	Classi per le quali si assegna il voto	1° trimestre	2° trimestre	3° trimestre	Risultato dello scrutinio	ESAMI		NOTE
						1ª sessione	2ª sessione	
Religione	tutte	otto	otto	otto	otto			
Educazione morale, civile e fisica	tutte	dieci	dieci	dieci	dieci			
Lavoro	3ª e succ.							
Lingua Italiana	tutte	otto	otto	otto	otto			
Storia e geografia.	3ª e succ.							
Aritmetica e geometria	tutte	nove	otto	nove	nove			
Scienze e igiene	3ª e succ.							
Disegno e bella scrittura	tutte	otto	otto	sette	otto			
Canto.	3ª e succ.							
<i>(Nell'educazione morale, civile e fisica è compresa anche la condotta)</i>								
Assenze giustificate	tutte							
Assenze ingiustificate	tutte							

Firma del genitore

1° trim. *Baldo Guiso*

2° trim. *Baldo Guiso*

3° trim. _____

Si attesta che l'alunn. (1) *Baldo*

Marcello

(2) *è* stat. d.

promoss. a. alla (3) *III* classe

Ha completato gli studi del grado (4) _____

La Commissione

L'Insegnante

Paulani Ricciarini

Visto: Il Direttore

Data *Giugno 1951*



Note — (1) Cognome e nome dell'alunno.
 (2) È o non è.
 (3) 2ª, 3ª, 4ª o 5ª.
 (4) Inferiore o superiore (solo per la 3ª e la 5ª classe).
 I voti devono essere espressi in numeri da zero a dieci e devono essere scritti in lettere.



Marcello classmates
Treviso, probably 1954





Marcello classmates
Treviso, probably 1954



Marcello classmates
Treviso, probably 1954



Marcello classmates
Treviso, probably 1954

Bianchini Lino
~~...~~
~~...~~
 Cordero
 Garaglio Gianfranco
~~...~~
 Ferraciacinto
 Martignetti
 Ferracini Emio
 Calese Emio
 Muciani Antonio
 Ferrello Giovanni
 Paoletto P.
 Zeser Bruno
 Baldo Marcello
 Mosson Gero

~~...~~
 Cenciani Franco
 Crivelli Vittorio
 Manfredi Giuseppe
~~...~~
 Bernardelli Fran
~~...~~
 Trevisi Giancarlo
~~...~~
~~...~~
 Bordinelli Paolo
 Bresoli
~~...~~

Proprietario:
 Baldo Mar
 cello

Guido Baldo (Marcello's father) was an engineer working at Marghera in a steel factory.

In the 60s, our government started the so-called industrialisation of the south of Italy and then Guido was invited to move to Catania to the Megara steel factory. At that time this factory was the only one, in Europe, to produce iron rod.

Guido Baldo (Marcello's father) was an engineer working at Marghera in a steel factory.

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So, it was due to the process of industrialisation of the south of Italy that Marcello's family moved to Catania.

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So, it was due to the process of industrialisation of the south of Italy that Marcello's family moved to Catania.

By the way, we are still waiting the end of this process!!

Liceo Principe Umberto, Catania



Liceo Principe Umberto, Catania



8952
UNIVERSITA' DEGLI STUDI DI CATANIA

Facoltà di Scienze

Istituto di Fisica

Marcello Baldo

SU ALCUNI ASPETTI DELL'INTERAZIONE
TRA NUCLEONI ED ECCITAZIONI
PARTICELLA - LACUNA NEI NUCLEI MAGICI

TESI DI LAUREA

M. Baldo

RELATORI:

Ch.mo Prof. A. AGODI - Dott. F. CATARA

ANNO ACCADEMICO 1965 - 66

On some aspects of the
interaction between
nucleons and particle-
hole excitations in magic
nuclei

Dearest Fiorella,

Dearest Fiorella,

I am currently in Bologna where, for reasons beyond my control (!), I will stay until November 16th. I will therefore not be able to be present at this event which you have very appropriately organised.

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I still remember when he began his career as an INFN researcher. But I also remember the "fluency" with which on the same day he passed the Theoretical Physics and Mathematical Methods of Physics exams getting the highest mark (Trenta e Lode) with Attilio Agodi.

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Un abbraccio, Francesco





Few years later he went
to Copenhagen at the
Niels Bohr Institute

Season Ticket for Copenhagen bus
transportation



Season Ticket for Copenhagen bus transportation

Few years later he went to Copenhagen at the Niels Bohr Institute





Few years later he went to Copenaghen at the Niels Bohr Institute

Season Ticket for Copenaghen bus transportation

According to Francesco Catara, when he came back from Copenaghen, nobody, at the INFN Catania division, was able to recognise him!!



Copenhagen,
October 8th 1978



Copenhagen,
October 8th 1978



Università degli Studi di Catania
FACOLTÀ DI SCIENZE MATEMATICHE, FISICHE E NATURALI
CORSO DI LAUREA IN FISICA

LANZA GIUSEPPE EDOARDO

TEORIA MICROSCOPICA DEL TRASFERIMENTO
DI MASSA IN REAZIONI "DEEP INELASTIC,,

TESI DI LAUREA

Relatori :

Prof. F. CATARA

Prof. M. BALDO

ANNO ACCADEMICO 1979-80

Università degli Studi di Catania
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Prof. M. BALDO

ANNO ACCADEMICO 1979-80

Nuclear Physics **A391** (1982) 249–268
© North-Holland Publishing Company

**INDEPENDENT PARTICLE DESCRIPTION
OF MASS AND CHARGE TRANSFER
IN DEEP INELASTIC COLLISIONS**

M. BALDO, F. CATARA, E. G. LANZA, U. LOMBARDO and L. LO MONACO
Istituti di Fisica dell'Università di Catania and INFN – Corso Italia, 57 95100 Catania, Italy

Ettore Majorana School,
Erice 1986



Ettore Majorana School,
Erice 1986



Ettore Majorana School,
Erice 1986



Ettore Majorana School,
Erice 1986



Ettore Majorana School,
Erice 1986



Ettore Majorana School,
Erice 1986



Ettore Majorana School,
Erice 1986



Ettore Majorana School,
Erice 1986



Ettore Majorana School,
Erice 1986



Erice 1986



Erice 1986



Erice 1986



Erice 1986



Italy



rest of the world

Paolo!
What the hel* are
you doing here!

Enrico Fermi School, Varenna, July 1987
Frontiers and borderlines in many-particle physics



Enrico Fermi School, Varenna, July 1987
Frontiers and borderlines in many-particle physics



Enrico Fermi School, Varenna, July 1987
Frontiers and borderlines in many-particle physics



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Frontiers and borderlines in many-particle physics



When in Heidelberg I start to be interested
in classical and quantum Chaos
(Quantum driven pendulum)

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J.J. Kozak, M.K. Musho and M.D. Hattle,
Phys. Rev. Lett 49 (1982) 1801.

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Phys. Rev. Lett 49 (1982) 1801.

Volume 107A, number 4

PHYSICS LETTERS

28 January 1985

RANDOM WALK ANALYSIS OF QUANTUM CHAOS

E.G. LANZA ¹, N.H. KWONG ² and R.H. IBARRA ³

Max-Planck-Institut für Kernphysik, Heidelberg, West Germany

Received 24 October 1984

Using sequences generated by sampling the wavefunction of the quantum driven pendulum studied by Berman et al. as input, we compute the average walk length before trapping on a periodic one-dimensional lattice with one trap. Comparison with theoretical results gives a quantitative indication of the random behaviour of the system.

Chaotic scattering in heavy-ion reactions

M. Baldo, E. G. Lanza, and A. Rapisarda

*Istituto Nazionale di Fisica Nucleare, Sezione di Catania, Dipartimento di Fisica, Università di Catania,
Corso Italia 57, I-95129 Catania, Italy*

(Received 14 June 1993; accepted for publication 13 September 1993)

We discuss the relevance of chaotic scattering in heavy-ion reactions at energies around the Coulomb barrier. A model in two and three dimensions which takes into account rotational degrees of freedom is discussed both classically and quantum mechanically. The typical chaotic features found in this description of heavy-ion collisions are connected with the anomalous behavior of several experimental data.

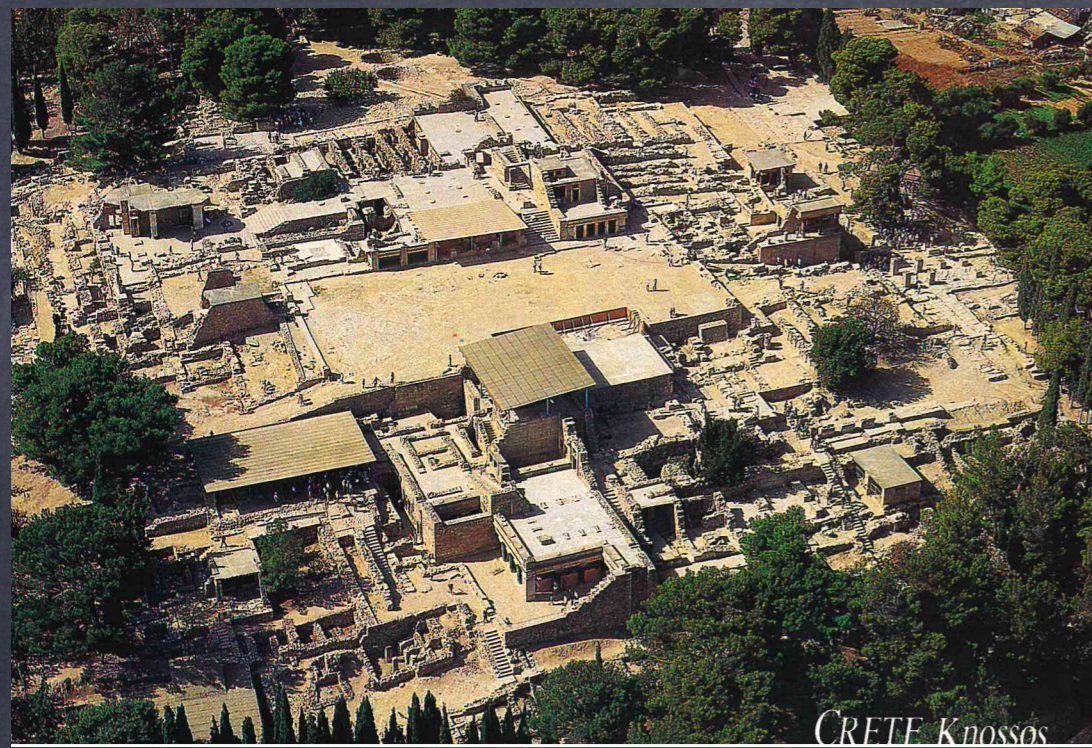
Crete island, year 1996 Conference on Chaos in physics



Crete island, year 1996
Conference on Chaos in physics



experiment on chaotic billiard !!



Well organised conference,
no chaos at all!



CRETE Knossos

Well organised conference,
no chaos at all!





Crete island, year 1996
Conference on Chaos in
physics



Crete island, year 1996
Conference on Chaos in
physics

... and then he decided to have
Chaos in Physics but Order in his
Life !!



And they continued, strengthened and enlarged
their collaboration yielding the best fruit of their
collaboration

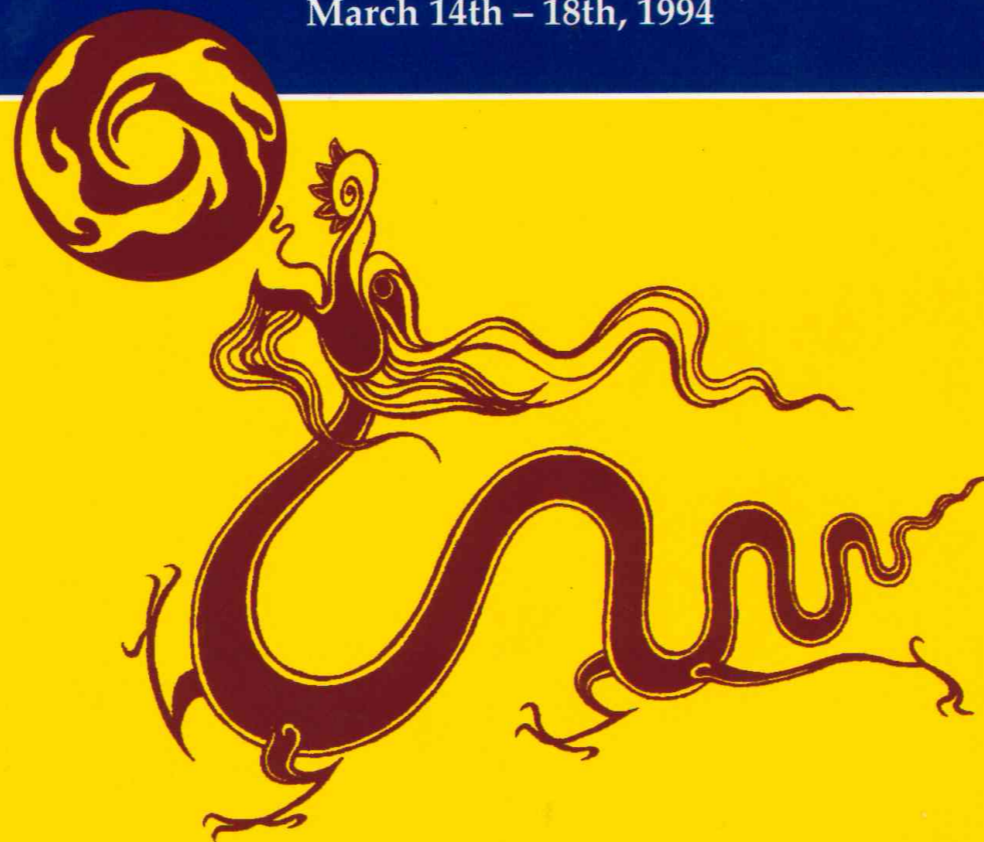
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International Conference on
Nuclear Physics and Related Topics

*Perspectives Of Nuclear Physics
in the Late Nineties*

Hanoi – Vietnam
March 14th – 18th, 1994



Editors

**Nguyen Dinh Dang, Da Hsuan Feng,
Nguyen Van Giai & Nguyen Dinh Tu**

World Scientific

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Conference participants with the vice-president of Vietnam Mme Nguyen Thi Binh at the Presidential Palace.



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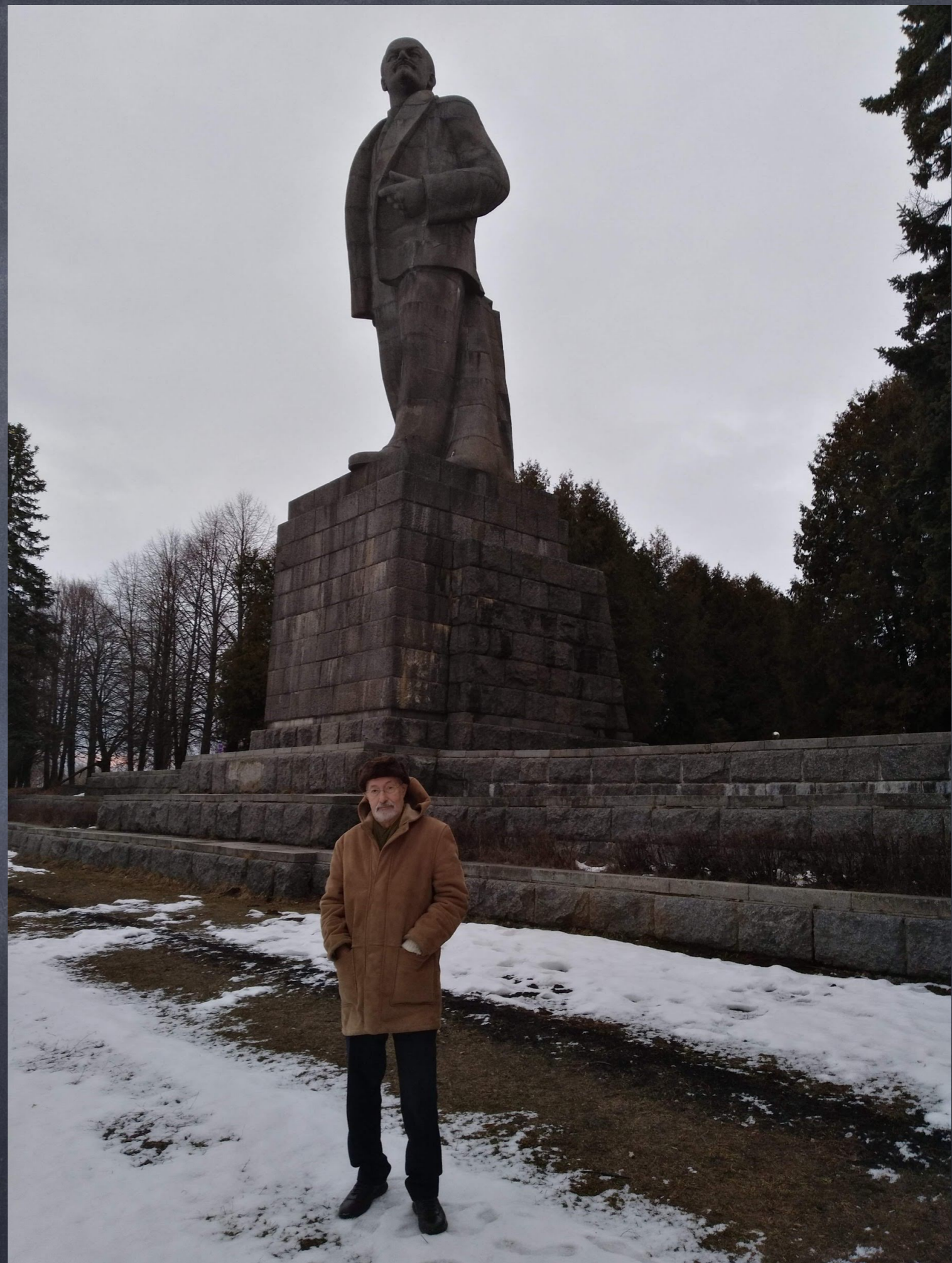
Conference participants with the vice-president of Vietnam Mme Nguyen Thi Binh at the Presidential Palace.



At Dubna,
with Pontecorvo



At Dubna, with Lenin



At Dubna, with Isaac



Asia - Europe Link Network Workshop on Nuclear Physics and Astrophysics

August 28-September 1, 2006, Lanzhou, China

兰州重离子加速器国家实验室

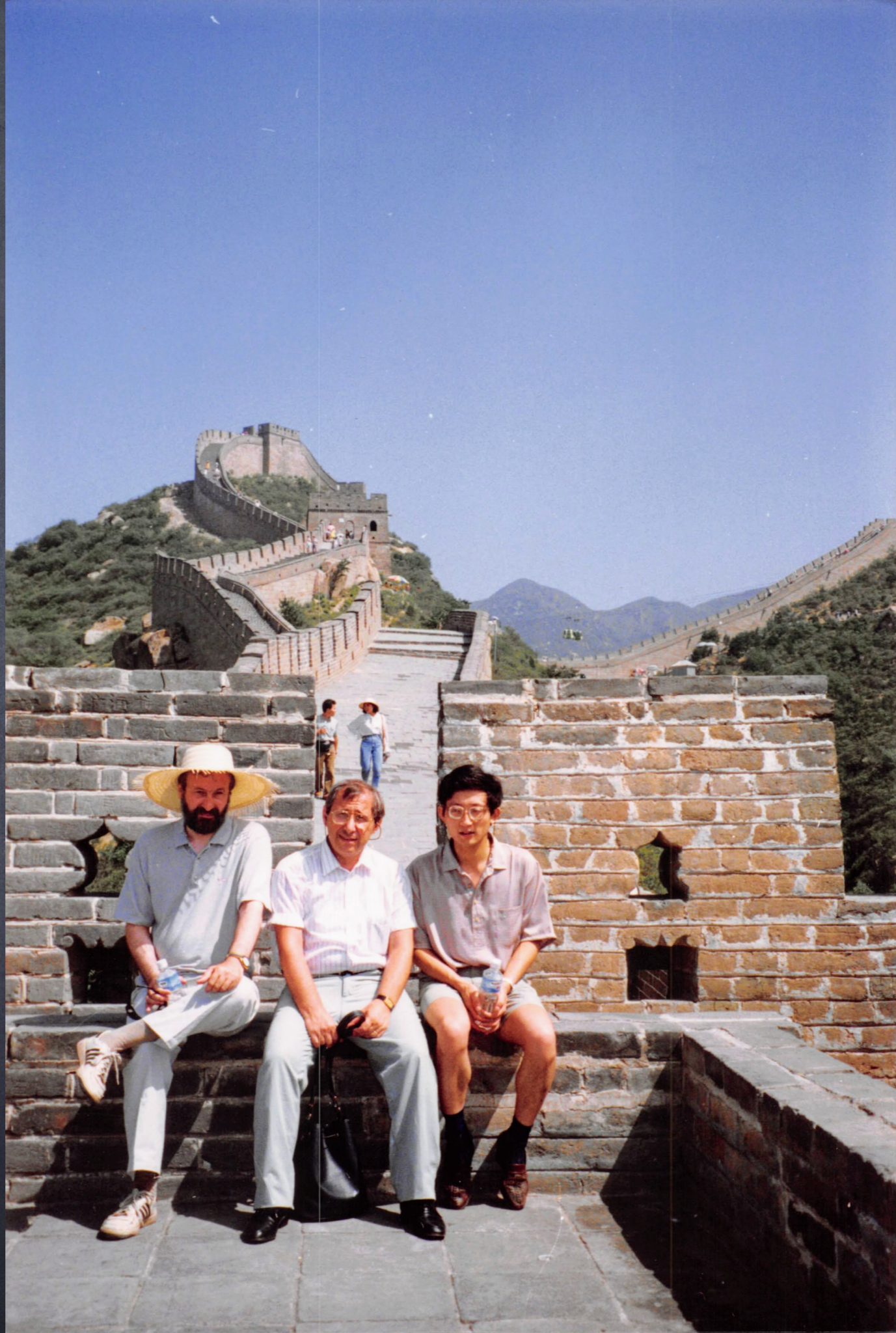
HIRFL

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2006 8 27





廣福光電儀器有限公司
(日環儀器廠核儀器分廠)

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	



First documented record of his scientific career,
with Renato Pucci at ICTP, Trieste



Actually at the park of ICTP !!!


First documented record of his scientific career,
with Renato Pucci at ICTP, Trieste

When they asked
about the branch,
I thought they
refer to something
different!!



Actually at the park of ICTP !!!

First documented record of his scientific career,
with Renato Pucci at ICTP, Trieste

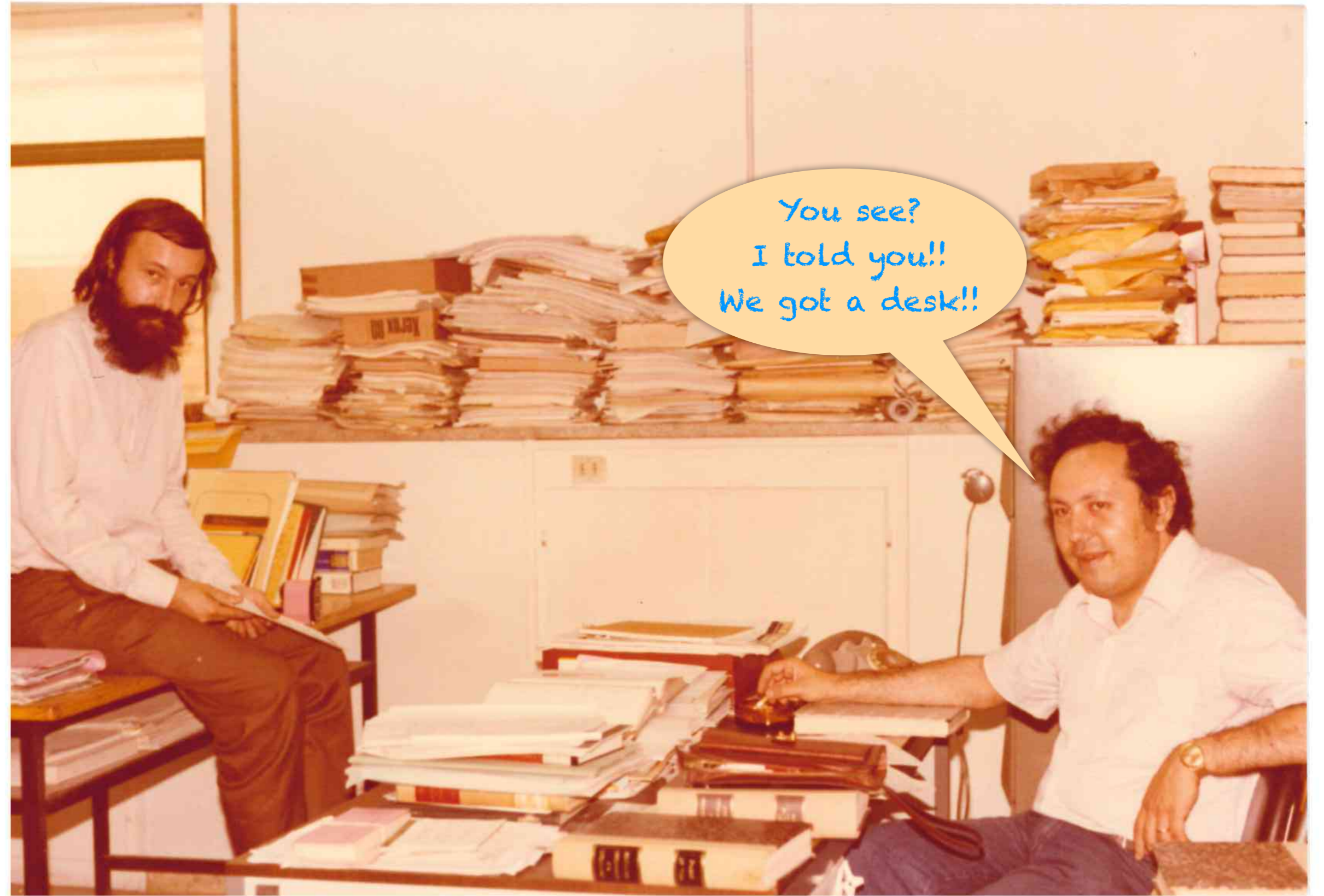


When they asked
about the branch,
I thought they
refer to something
different!!

Don't worry!
They have
promised that, if
we work hard, we
will get a desk!!

Actually at the park of ICTP !!!



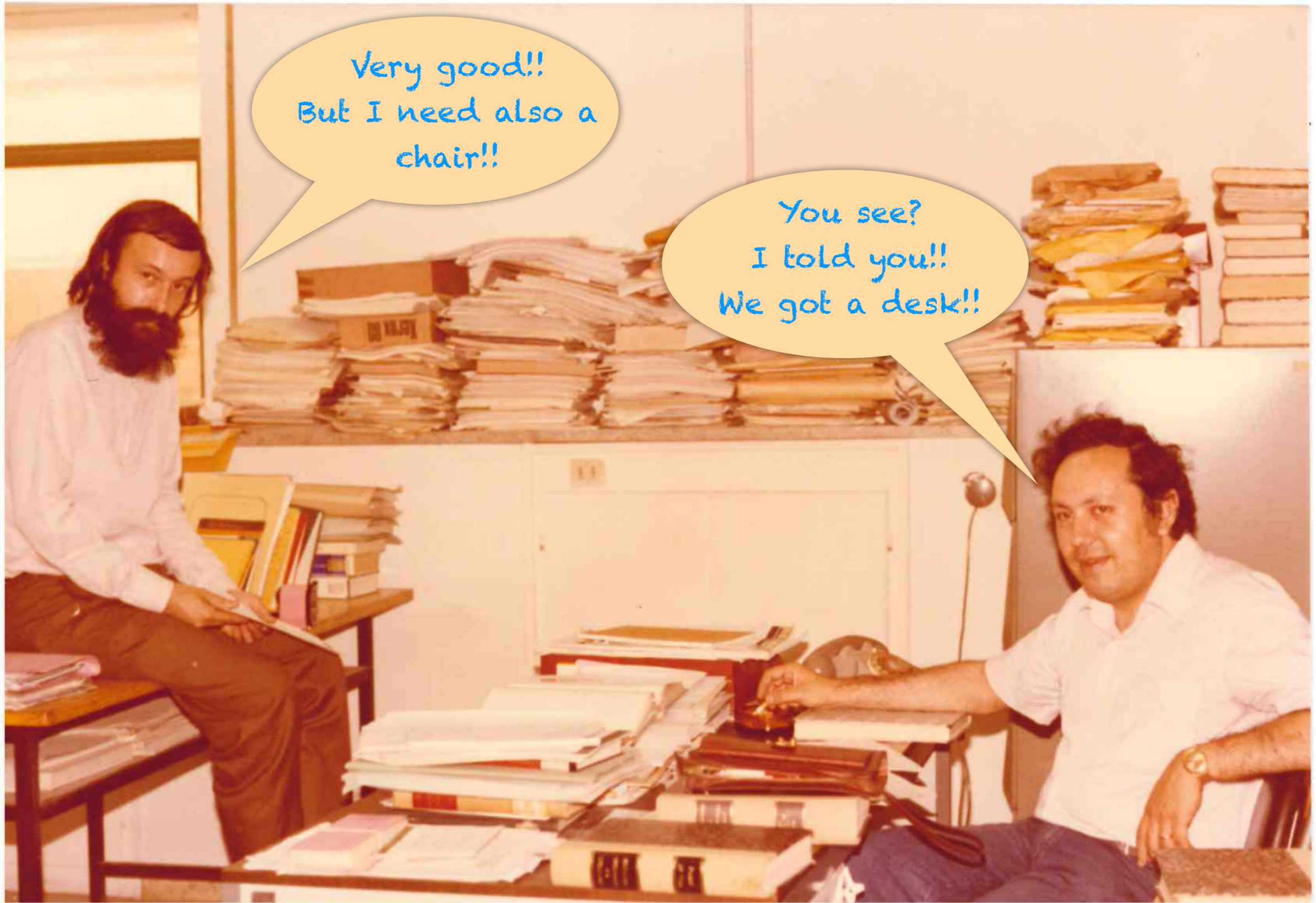


You see?
I told you!!
We got a desk!!



Very good!!

You see?
I told you!!
We got a desk!!



Very good!!
But I need also a
chair!!

You see?
I told you!!
We got a desk!!



$$\left(\epsilon - \frac{p^2}{2m} - \Sigma(\epsilon)\right)\psi = 0 \quad \mathcal{I} = 1 - \frac{\partial \Sigma}{\partial \epsilon}$$
$$G(\epsilon, \mathbf{p}) = G_0 + \dots$$
$$\int G_p d\epsilon = \dots$$
$$P_{n,n} = \Sigma_{n,n} = A$$
$$f(x) = f(-x)$$
$$\frac{d}{dx} f(x) = 0$$

Diagrams include a circular diagram with a vertical line and a horizontal line, and a coordinate system with axes labeled x and p .

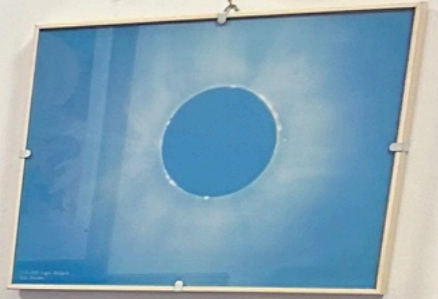
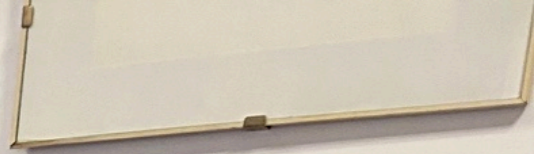
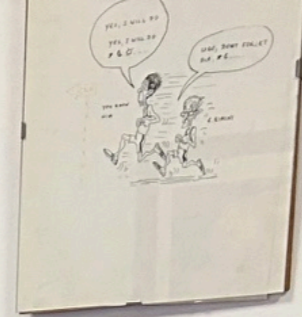
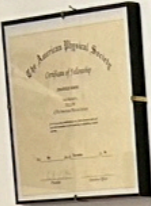
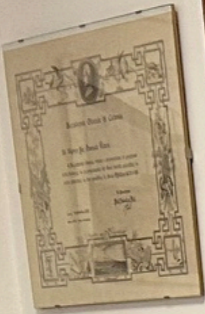


$$\left(\epsilon - \frac{p^2}{2m} - \Sigma(\epsilon) \right) \psi = 0 \quad \Sigma = 1 - \frac{\partial \Sigma}{\partial \epsilon}$$
$$G(\epsilon, \mathbf{r}, \mathbf{r}') = G_0 + \dots$$
$$\int G_p d\epsilon = \dots$$
$$P_{n,n} = \Sigma_{n,n} = A$$
$$f(x) = f(-x)$$
$$\frac{d}{dx} f(x) = 0$$

This is much better.



This is much better.
But something more
comfortable?



Golden Rule

of Physicists (et al.) community in Catania

Golden Rule

of Physicists (et al.) community in Catania
and beyond

Golden Rule

of Physicists (et al.) community in Catania
and beyond

"If something is unclear

Golden Rule

of Physicists (et al.) community in Catania
and beyond

"If something is unclear
or difficult to understand,

Golden Rule

of Physicists (et al.) community in Catania
and beyond

"If something is unclear
or difficult to understand,
ask Marcello!!"



The life of future generations is on our shoulders !



The life of future generations is on our shoulders !

Dear Marcello, your shoulders have been holding and guided many generations of physicists and we are all proud to have had and still have you as a guide.



The life of future generations is on our shoulders !

Dear Marcello, your shoulders have been holding and guided many generations of physicists and we are all proud to have had and still have you as a guide.

I wish you the best for the next 80 years!!

If you have any question ...

If you have any question ...
ask Marcello !!!



