

SCHOLARS IN EXILE AND DICTATORS IN POWER
THE INTELLECTUALS OF THE 20TH CENTURY
 JACQUES MARITAIN
 PRELUDE, MAY 24th, 2011

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A black and white photograph showing two men in white lab coats working on a piece of equipment, likely a microscope or a similar scientific instrument. They are in a laboratory setting.



Center for the History of Sciences and Physicians Institute for Contemporary History of Science and Technology of the University of Science and Technology of China

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14.00 – 14.20 Hoffmann, Dieter: The Emigration of German Scientists to Prussia
 1933-1939

z oddělení vysokých energií

Fyzikálního ústavu ČSAV

v Praze po srpnu 1968.

Jan Hladký

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PARTICLE PHYSICISTS EMIGRATION AFTER AUGUST 1968

The paper describes scholars in exile after August 1968 in one special case. It deals about the **scholars from the Department of high energy physics of the Institute of Physics of the Czechoslovak Academy of Sciences in Prague**. The Department had in the Institute very special position. The group of its physicists was included since the mid of fifties in broad international scientific collaboration of many scientific institutions and universities over all the world. At the beginning the collaboration occurred only on distance. During the early sixtieth the collaboration grew. The people-scholars and technicians could visit western scientific institutions and work there also for a longer time. After soviet invasion in 1968 to the Czechoslovakia most of the people decided to emigrate. Then the number of the people in the Department in Prague decreased to one half. The scientific future and position of the emigrated scholars is described.

J. Hladký



1. General situation of the intellectuals – scholars in Easteuropean (communistic) countries.

1. The situation in Czechoslovakia.

1. The scholars from cosmic rays and high energy (particle) physics.

1. The scholars in the Institute of Physics of the Czechoslovak Academy of Sciences, Prague.

1/General situation of the intellectuals

All controlled by the **Moscow Kremlin**.
Strong ideological education: Marxism-Leninism, but **science** needed, above all **nuclear physics & Co.** (see also Khrushchev's visits with coryphee + nuclear physicist) → **science supported**.
The same situation in our neighbours:

Poland, Hungary → **science supported**.

2/The situation in Czechoslovakia.

In Czechoslovakia after 1948 - all different.

History:

big industry – broad middle level
and strong labour classes → labour scholars
→ previous intellectuals suspected,
→ no big support for science & scholars

(up to now remains the suspicion from highest personalities, economists and “neoliberals”).



In Czechoslovakia:

Czech Academy of Sciences and Arts liquidated



1952 Academy of Sciences

**1953 Institute of Physics,
Prague**

**1955 Department of
cosmic rays physics**

→ 2 groups

3/The scholars from cosmic rays and high energy (particle) physics.

→ Big Nuclear physics institutions:

1954 CERN - Geneva

1956 JINR - Dubna /(Moscow)

1959 DESY – Hamburg

and others in Europe and USA

4/The scholars in the Institute of Physics of the Czechoslovak Academy of Sciences.

Broad scientific collaboration:

1955-1957 International Geophysical Year

1957-1959 International Geophysical Coll.

for cosmic rays physics and

1957 JINR Dubna - Moscow

1960 CERN and his members

for particle physics



In early sixtieth - most of the scholars are busy in the **Joint Institute of Nuclear Research Dubna** – big 10 GeV proton synchrotron in

Laboratory of High Energy Physics.

(**Czechoslovakia** has a **membership**) and few in **CERN Geneva** or in other western institutions.

The rate west-east was ~ 1 to $4 \div 5$.

Two cosmic rays groups in Prague:

Emulsion – head Dr. J. Pernegr PhD.

Electronics – head Dr. P. Chaloupka PhD.



Transformed in 1962 together to High Energy
(Particle) Physics **department.**

Totally about **40 graduated staff members**
~ 17 emigrated after 1968 !!!

**elsewhere, mainly CERN, Saclay, Orsay,
Heidelberg Uni., Birmingham Uni., USA labs.
Rutherford H Energy Lab, Canada labs, etc**

List of the people emigrated after August 1968 from cosmic rays and high energy physics.

Experiment

Dr. Jaroslav Pernegr PhD.

Dr. Pavel Chaloupka PhD.

Dr. Přemysl Mokrý

Dr. Jiří Vrána PhD.

Dr. Milan Votruba PhD.

Ivan Lehraus

Dr. Bohumil Franěk

Dr. Vladimír Chaloupka

Zdeněk Sekera

Josef Skůra

Dr. Jaroslav Vávra,

Dr. Jan Votruba PhD.,

Theory

Dr. Pavel Smrž

Dr. Jiří Patera PhD.

Dr. Peter Herczeg

Dr. Rudolf Šály

Ivan Doskočil

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Graduated members of the department of High Energy Physics of the Institute of the Czechoslovak Academy of Sciences Prague not emigrated after 1968.

Theory:

M.Lokajíček
J.Fischer
J.Niederle
M.Bednář
V.Kundrát
V.Šachl

Experiment:

J.Sedlák
A.Prokeš
M.Jireš
V.Šimák
J.Hladký
M.Novák
I.Herynek
J.Boehm
J.Cvach
S.Fišer

Hard&Software:

M.Malý
J.Mecera
B.Nábělek
S.Vyskočil
&
J.Benšová
J.Marek

In middle of the sixtieth was

Dr. Jaroslav Pernegr PhD, as

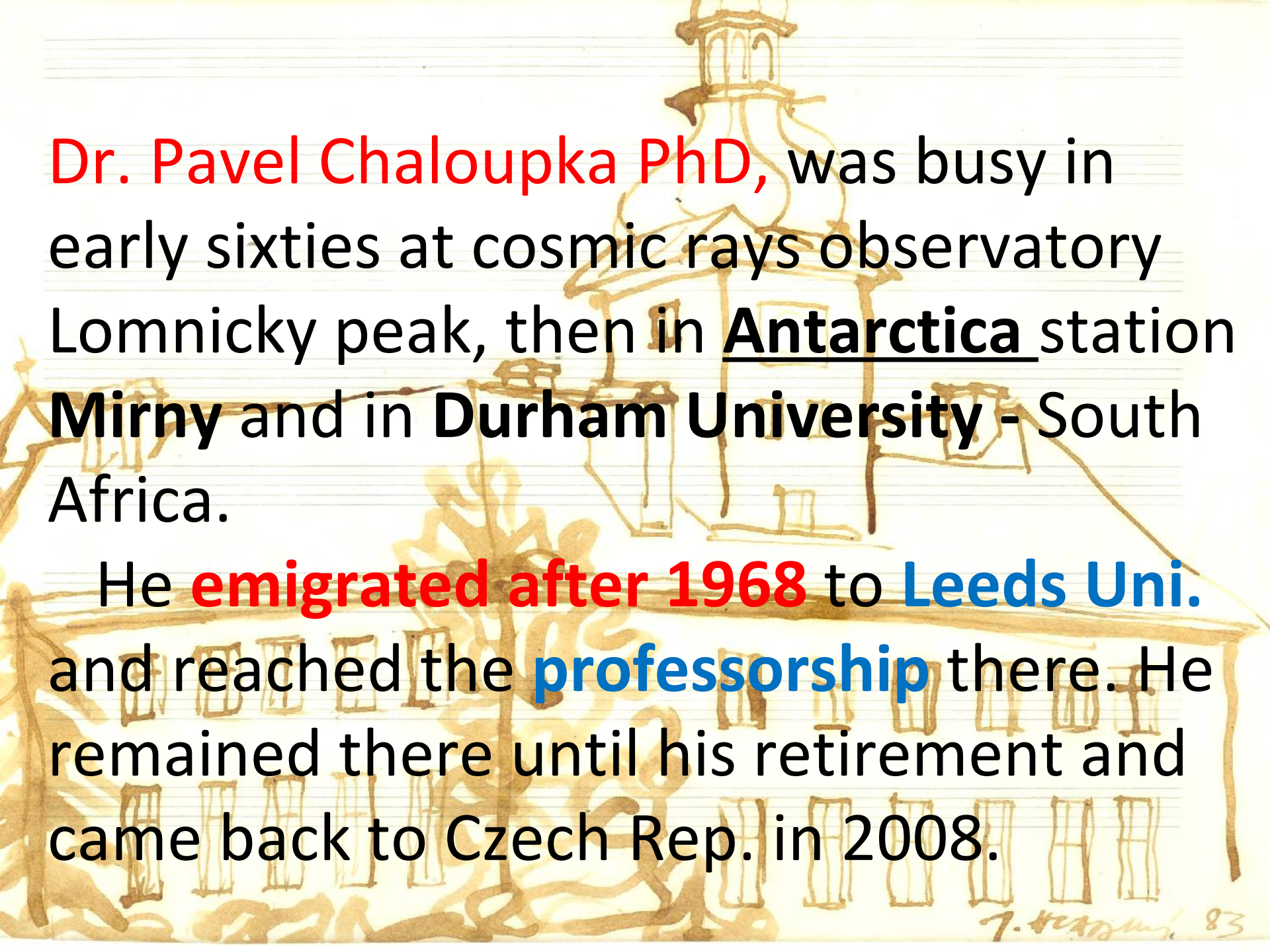
**Vice-director of the High-energy
laboratory in JINR Dubna.**

Beginning 1948 he had permanent
troubles with STB (Czechoslovak KGB).

He **emigrated in August end 1968** to **CERN**

and after he reached a position at

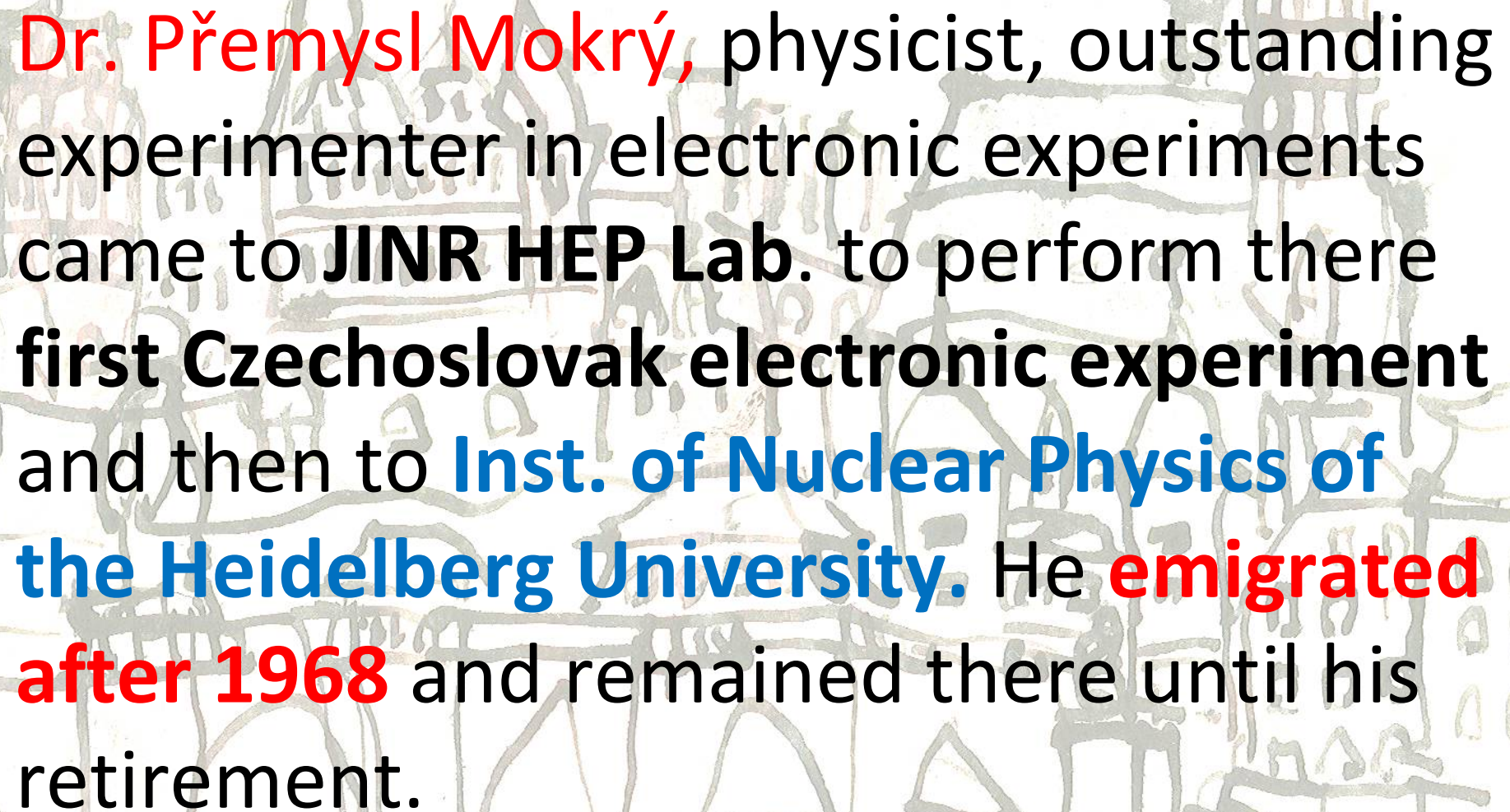
Ecole Polytechnique Paris and at
ETH Zurich and **Uni. Fribourg.**



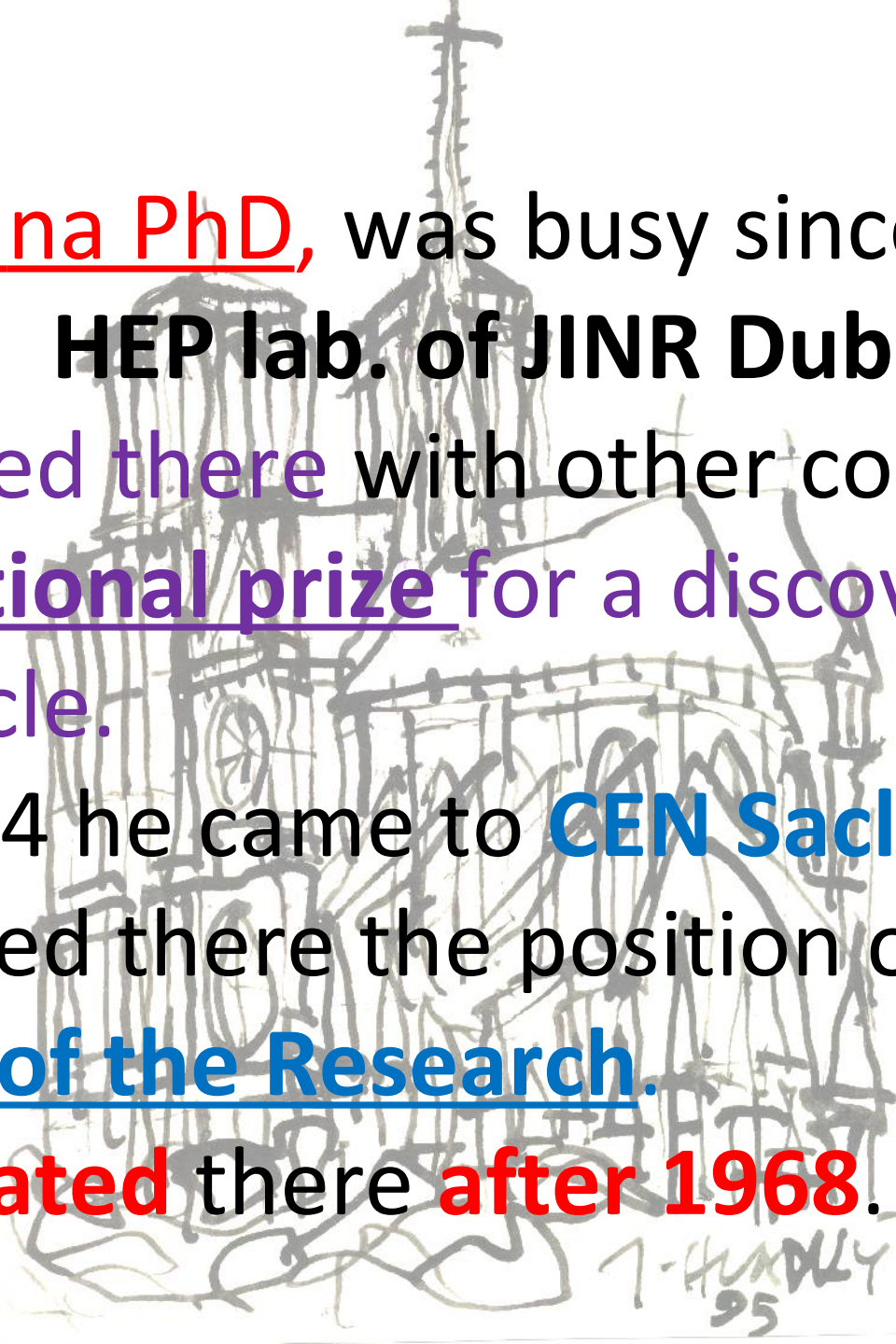
Dr. Pavel Chaloupka PhD, was busy in early sixties at cosmic rays observatory Lomnický peak, then in Antarctica station Mirny and in Durham University - South Africa.

He emigrated after 1968 to Leeds Uni. and reached the professorship there. He remained there until his retirement and came back to Czech Rep. in 2008.

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Dr. Přemysl Mokrý, physicist, outstanding experimenter in electronic experiments came to **JINR HEP Lab.** to perform there **first Czechoslovak electronic experiment** and then to **Inst. of Nuclear Physics of the Heidelberg University**. He **emigrated after 1968** and remained there until his retirement.



Dr. Jiří Vrána PhD, was busy since early sixtieth in **HEP lab. of JINR Dubna**.

He obtained there with other collaborators Soviet national prize for a discovery of new particle.

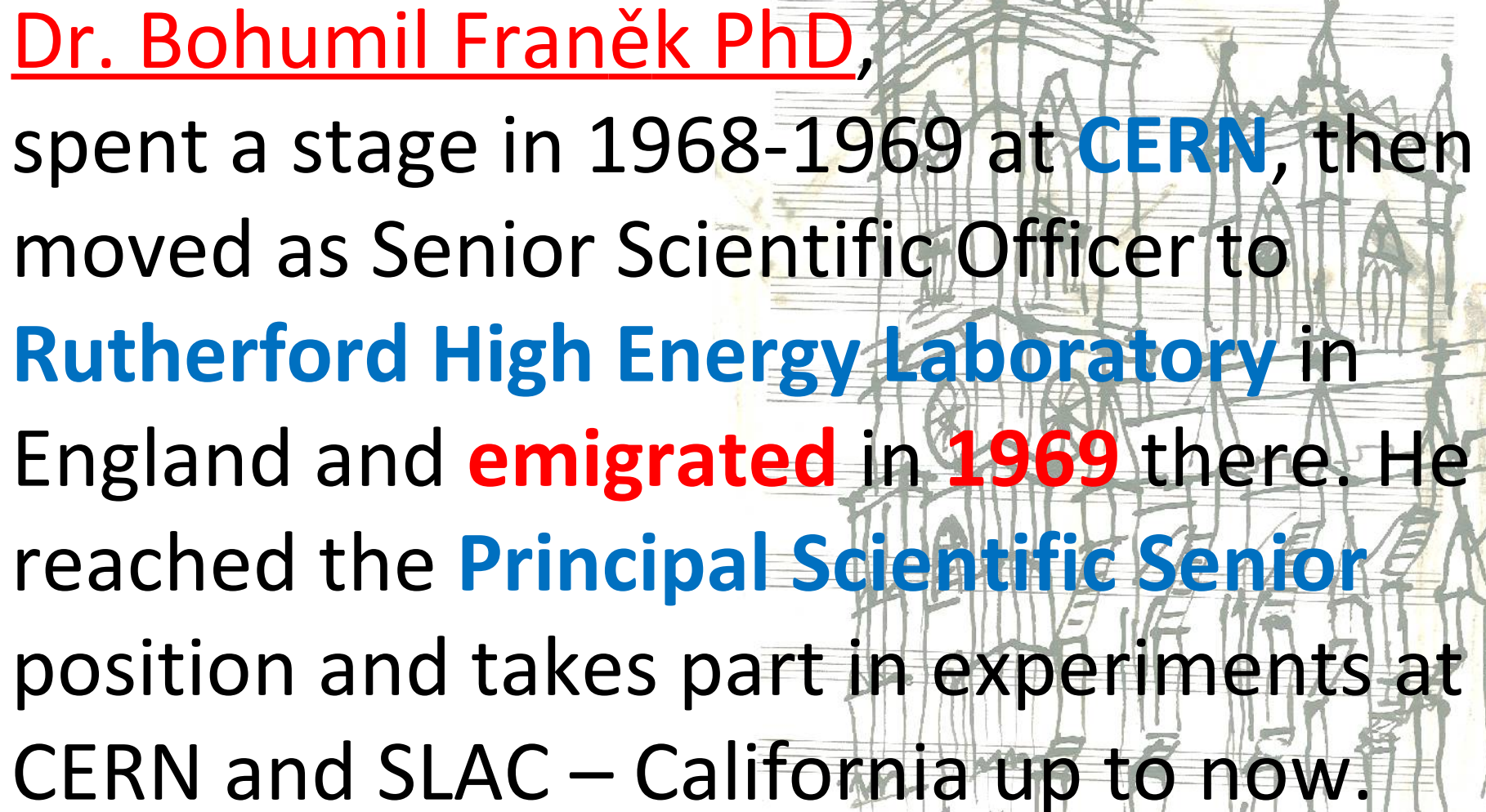
Since 1964 he came to **CEN Saclay - France** and reached there the position of Director of the Research.

He **emigrated** there **after 1968**.

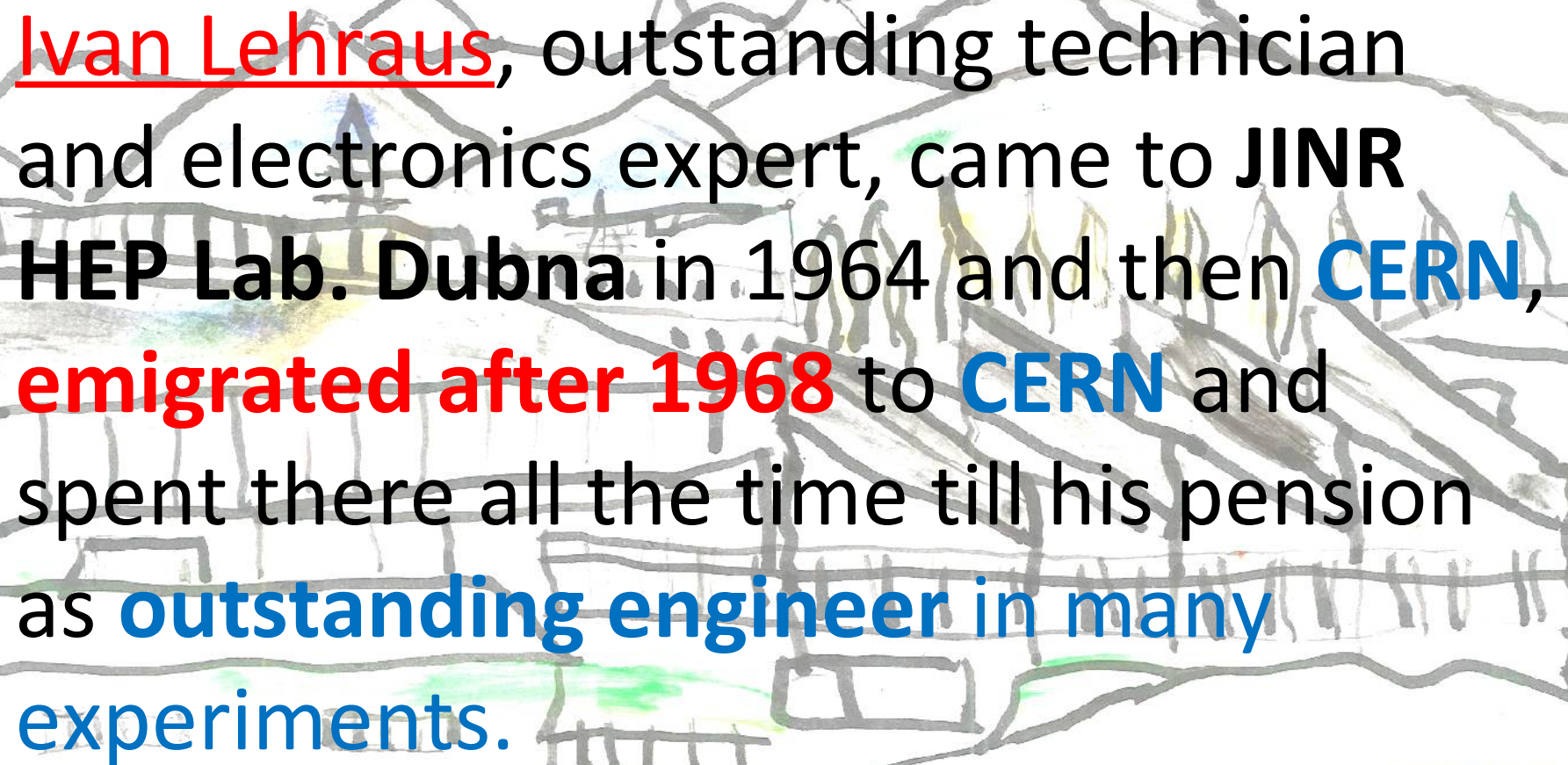
Dr. Milan Votruba PhD, was busy since 1962 for few years in CERN – Geneva.

He **emigrated** there **after 1968** and obtained the professorship position at the **University of Birmingham** and took part in the experiments at CERN to his retirement.

01. 7. 1968

A faint, artistic background sketch of a cathedral with multiple spires and arches. Overlaid on the sketch are several horizontal musical staves with notes. The text is written in a mix of black, red, and blue colors.

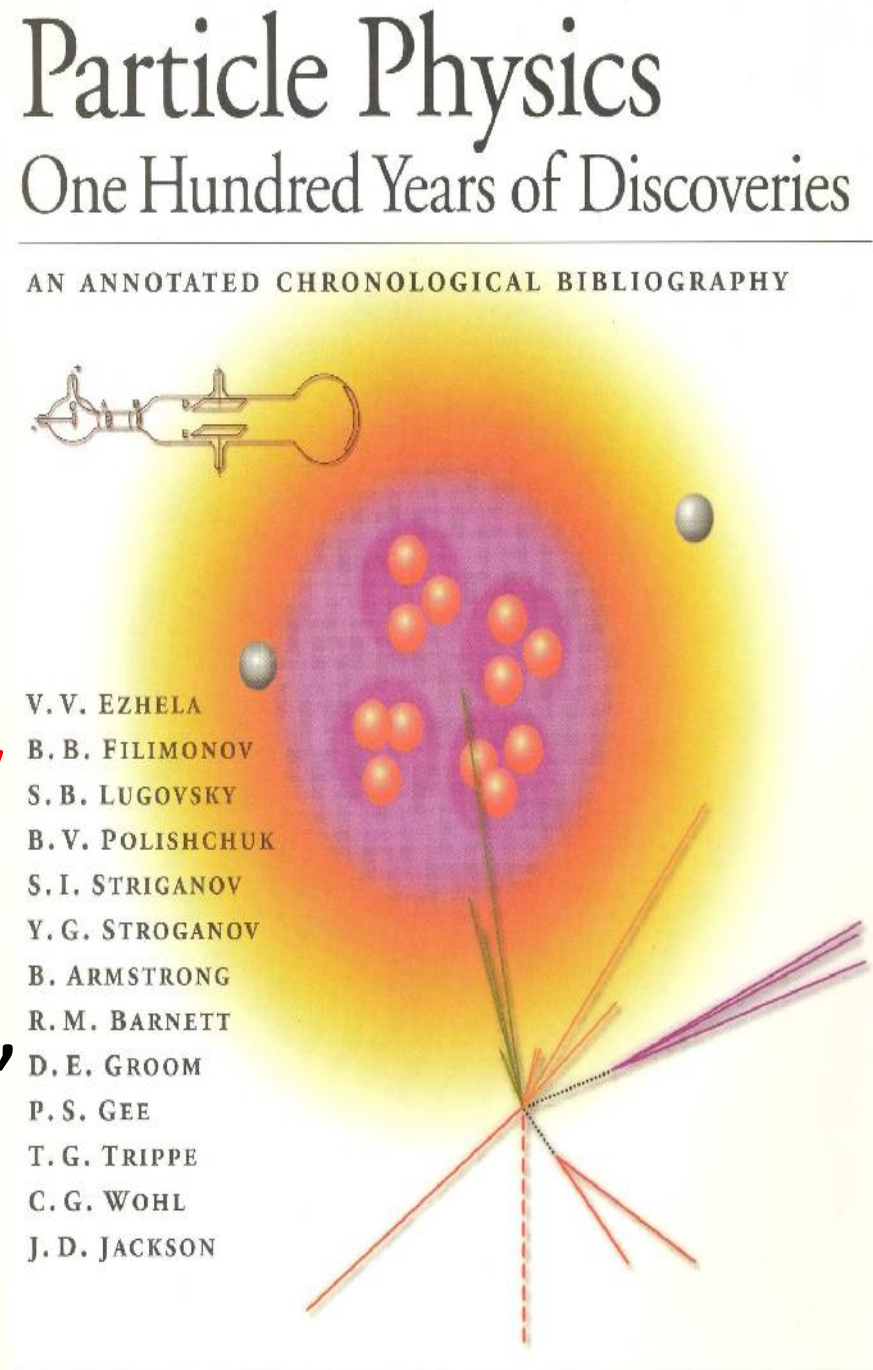
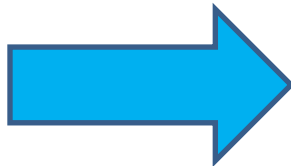
Dr. Bohumil Franěk PhD,
spent a stage in 1968-1969 at **CERN**, then
moved as Senior Scientific Officer to
Rutherford High Energy Laboratory in
England and **emigrated** in **1969** there. He
reached the **Principal Scientific Senior**
position and takes part in experiments at
CERN and SLAC – California up to now.

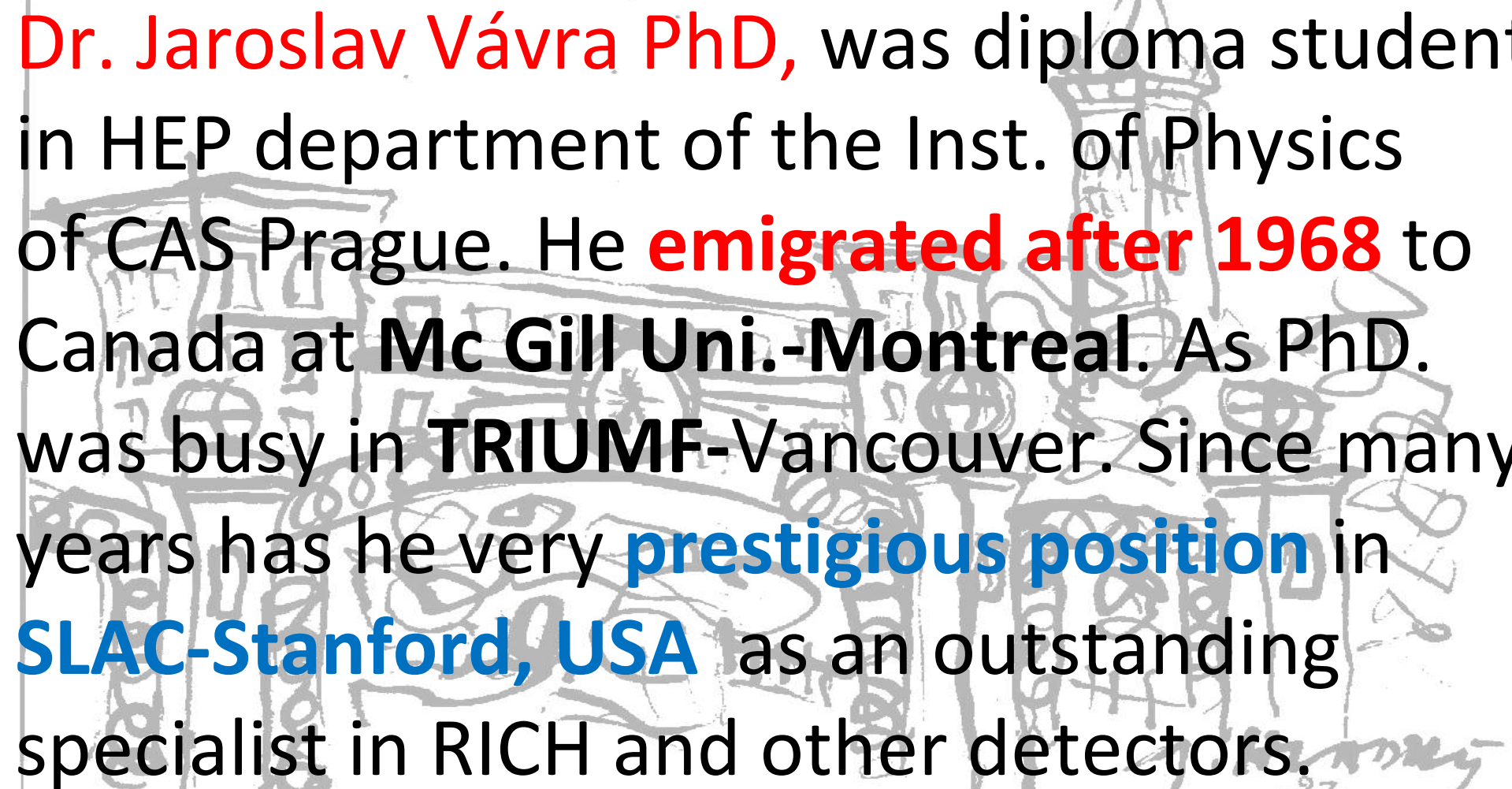


Ivan Lehraus, outstanding technician and electronics expert, came to **JINR HEP Lab. Dubna** in 1964 and then **CERN**, **emigrated after 1968** to **CERN** and spent there all the time till his pension as **outstanding engineer in many experiments.**

J. H. A. Dey

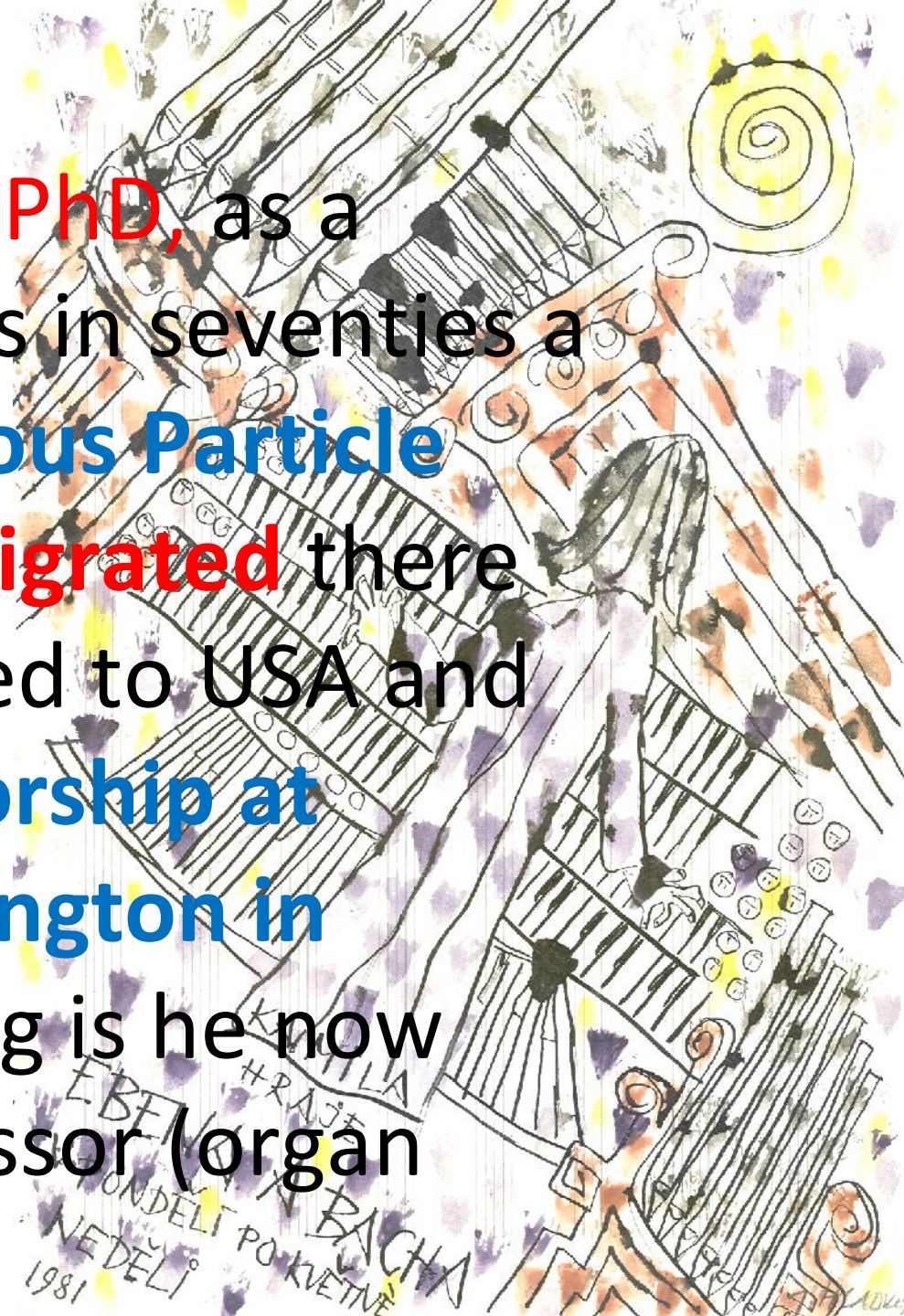
Four last scholars
are **cited** in the
prestigious book
dissertating the **best**
discoveries in our
branch in last century
together with
Roentgen, Rutherford,
Einstein etc.

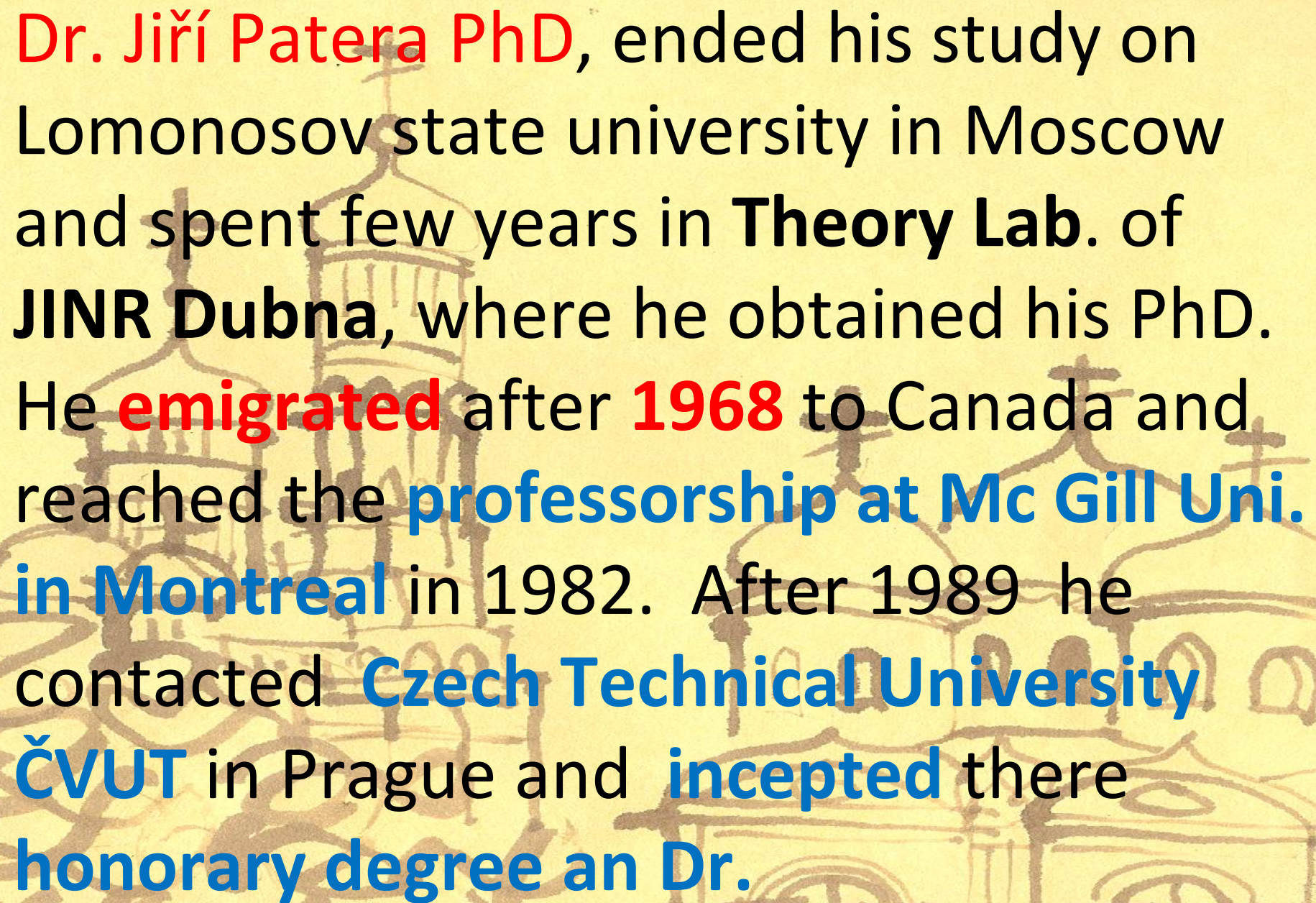




Dr. Jaroslav Vávra PhD, was diploma student in HEP department of the Inst. of Physics of CAS Prague. He **emigrated after 1968** to Canada at **Mc Gill Uni.-Montreal**. As PhD. was busy in **TRIUMF-Vancouver**. Since many years has he very **prestigious position** in **SLAC-Stanford, USA** as an outstanding specialist in RICH and other detectors.

Dr. Vlad. Chaloupka PhD, as a postdoc in **CERN** was in seventies a member of prestigious **Particle DATA** group. He **emigrated** there **after 1968**. He moved to USA and reached an **professorship at University of Washington in Seattle**. After retiring is he now busy as music professor (organ etc.)





Dr. Jiří Patera PhD, ended his study on Lomonosov state university in Moscow and spent few years in **Theory Lab.** of **JINR Dubna**, where he obtained his PhD. He **emigrated** after **1968** to Canada and reached the **professorship at Mc Gill Uni. in Montreal** in 1982. After 1989 he contacted **Czech Technical University ČVUT** in Prague and **incepted** there **honorary degree an Dr.**

**Other scholars emigrated after 1968,
were successful elsewhere**

-in Europe, Africa, USA
or Australia...

e.g. Geneva, Zurich,
CERN, Heidelberg,
Saclay, Brookhaven,
Vancouver, Pisa etc.

**as physicists, technicians or
computer specialists.**



Thanks for your attention

Big brother with 1000 eyes

