

Bucharest emulsion group along the time

Who we are

- Milla Baldo Ceolin **THE DISCREET CHARM OF THE NUCLEAR EMULSION ERA**

But when I think of that period in my professional life, nostalgia overcomes me, along with an urge to speak about the enthusiasm and the vigor of those days when we had the feeling of advancing another step, however small, toward understanding the complex phenomena before us.

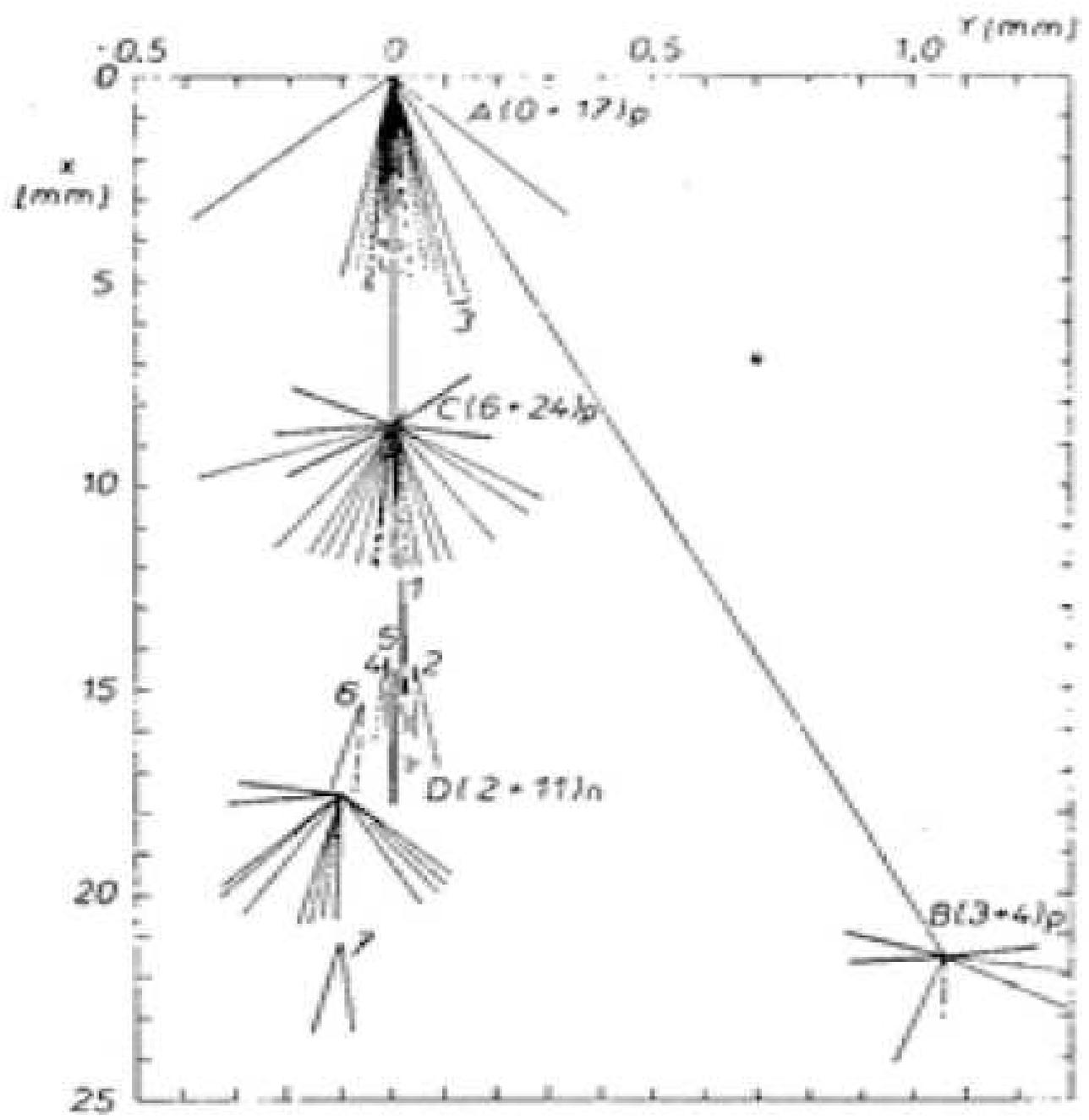
**INSIDE
EVERY
OLDER
PERSON
IS A
YOUNGER
PERSON
WONDERING
WHAT THE
HELL
HAPPENED.**

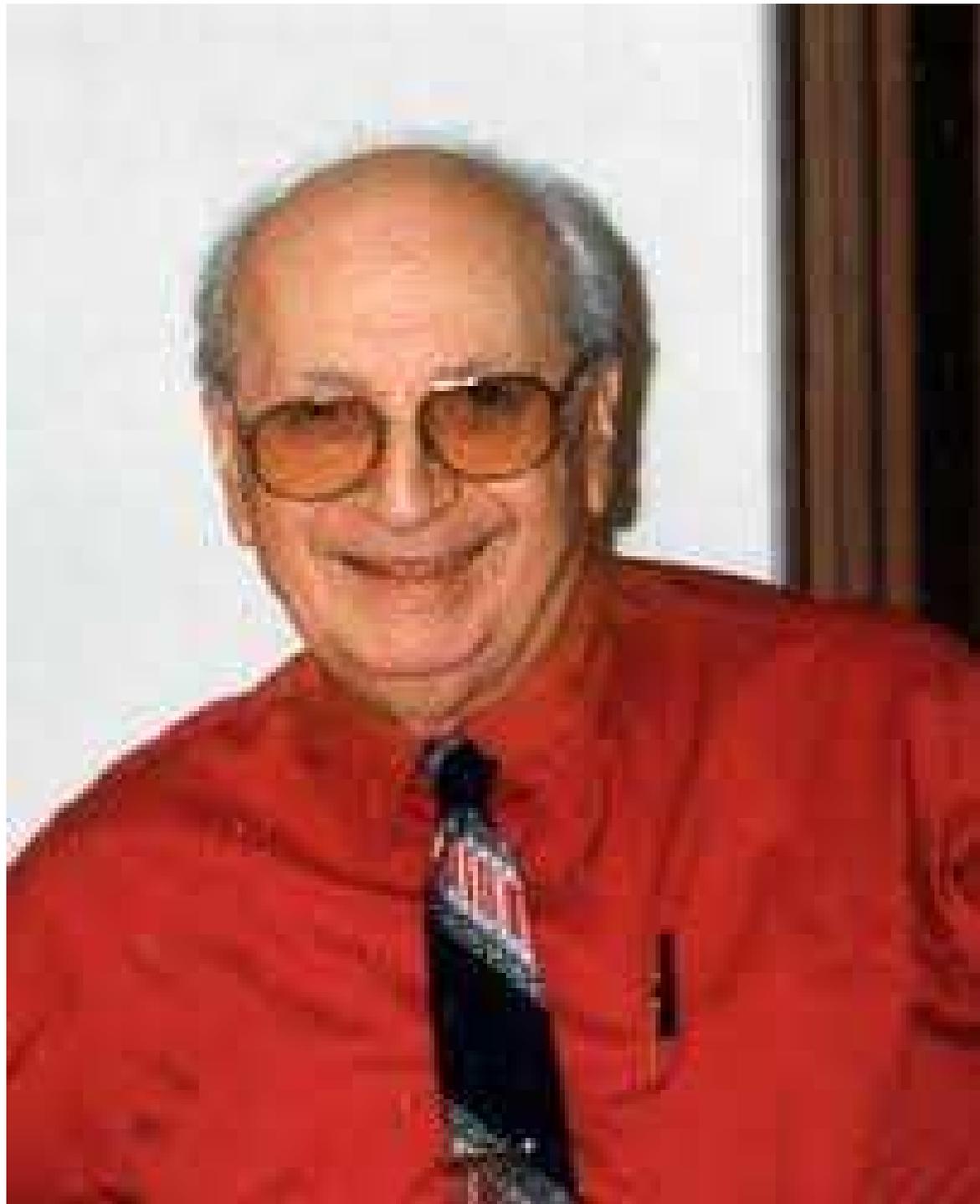
- 1956 Institute of Atomic Physics
- Laboratory of cosmic rays
- 1958



Figure 1 A balloon ready for the ascent in the Sardinia area in July 1953. For the first time, emulsion stacks were made up of 40 stripped emulsions bound together between thick glass plates, wrapped and sealed and subsequently marked with X-rays.





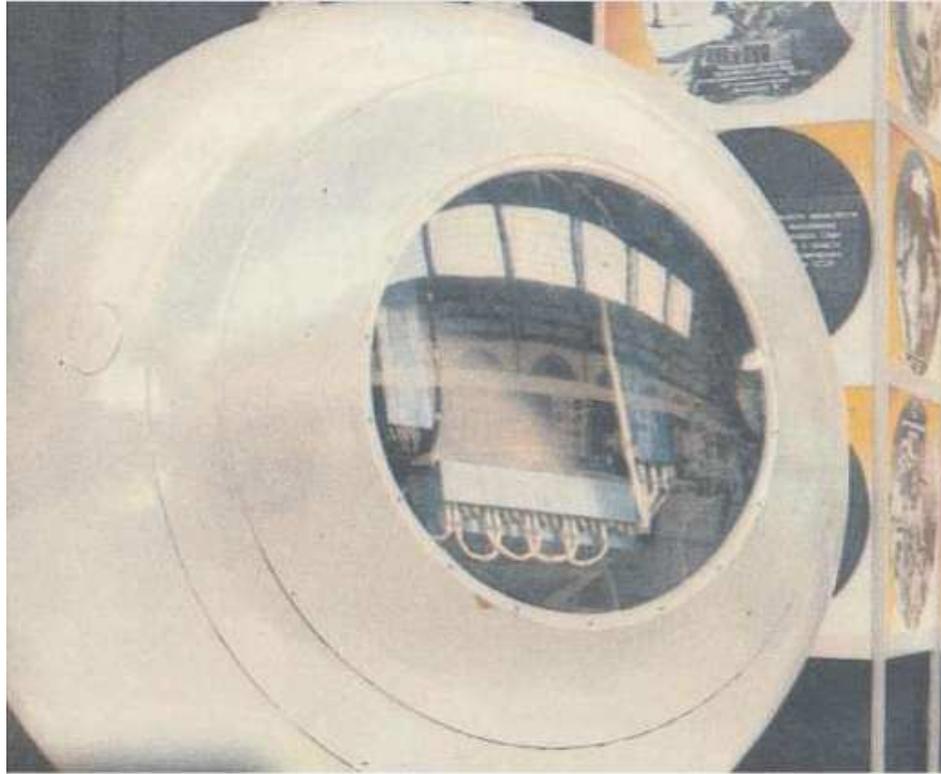




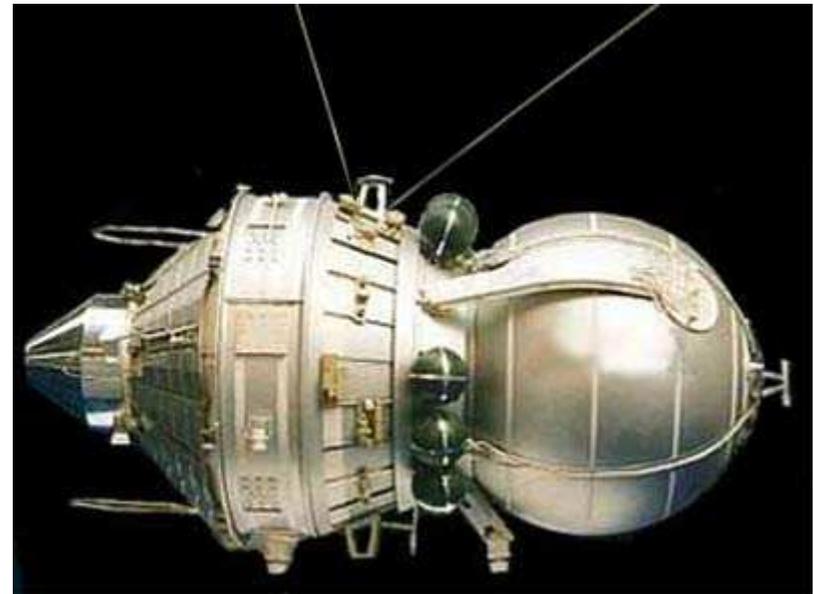


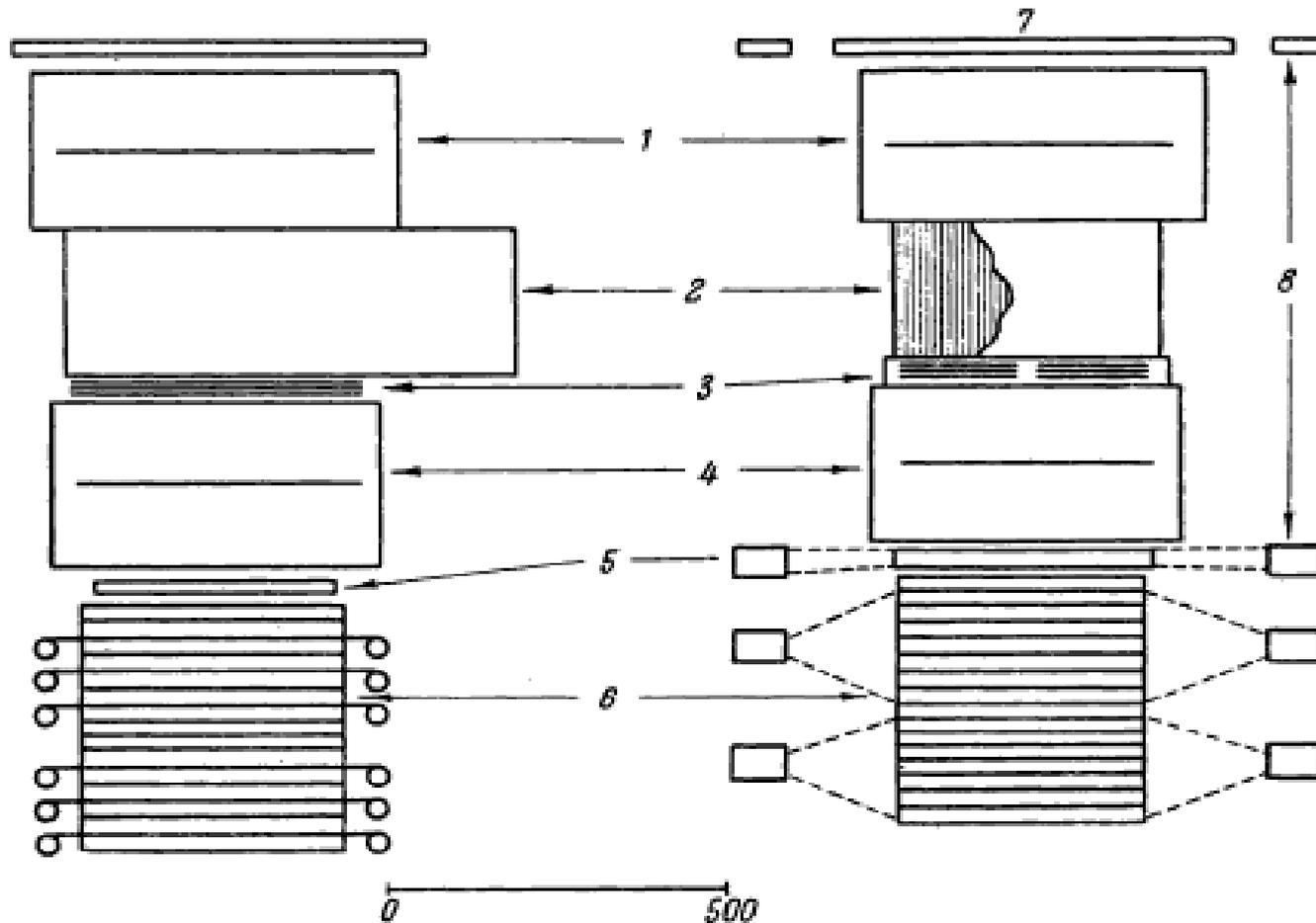


- CERN - ISR a particle accelerator , the first hadron collider, and run with a maximum center of mass energy of 62 GeV
- 1972 - The ratio of the production of very slow antiprotons to that of pions in the same momentum interval was measured at the ISR by means of nuclear emulsions. Averaged over the interval $0.12 \text{ GeV}/c \leq p_{\perp} \leq 0.34 \text{ GeV}/c$ and $0 \leq p_{\parallel} \leq 0.2 \text{ GeV}/c$, .



Intercosmos 6





- 1, 4 track spark chambers
- 2 emulsion stack
- 3 horizontal emulsion sheets
- 5, 7 scintillators
- 6 Ionization calorimeter
- 8 PM

We scanned for mini electron positron showers and traced them back until we found their origin - the interaction of nuclei. In five events selected for analysis, as a result of 67 interactions, we determined the mean multiplicity 3.3 ± 0.7 . The energy of the primaries was evaluated as above 1 TeV.

The 2-nd Soviet satellite



S. N. Vernov



N.L. Grigorov



A.E. Chudakov



Yu. I. Logachev



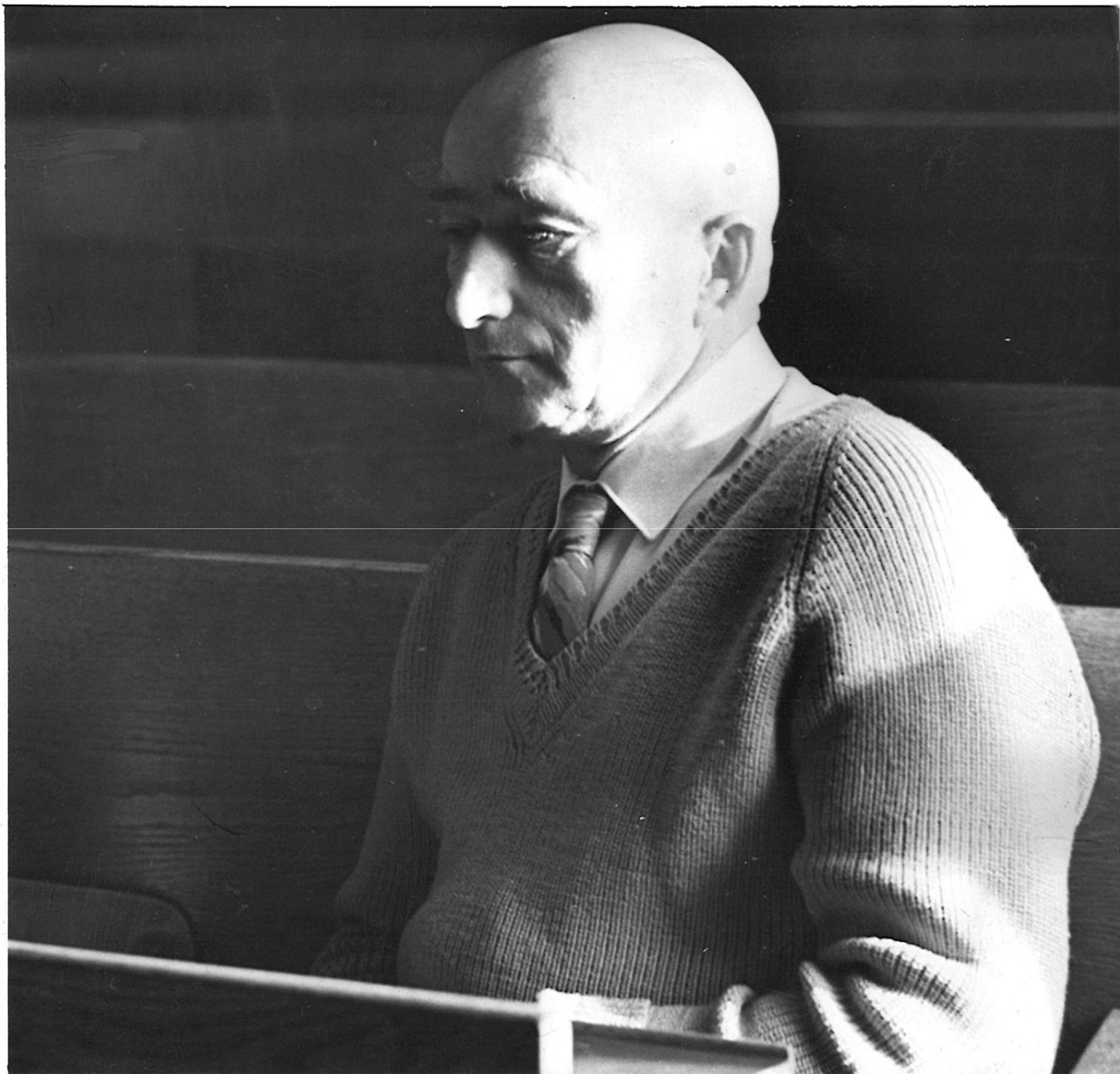




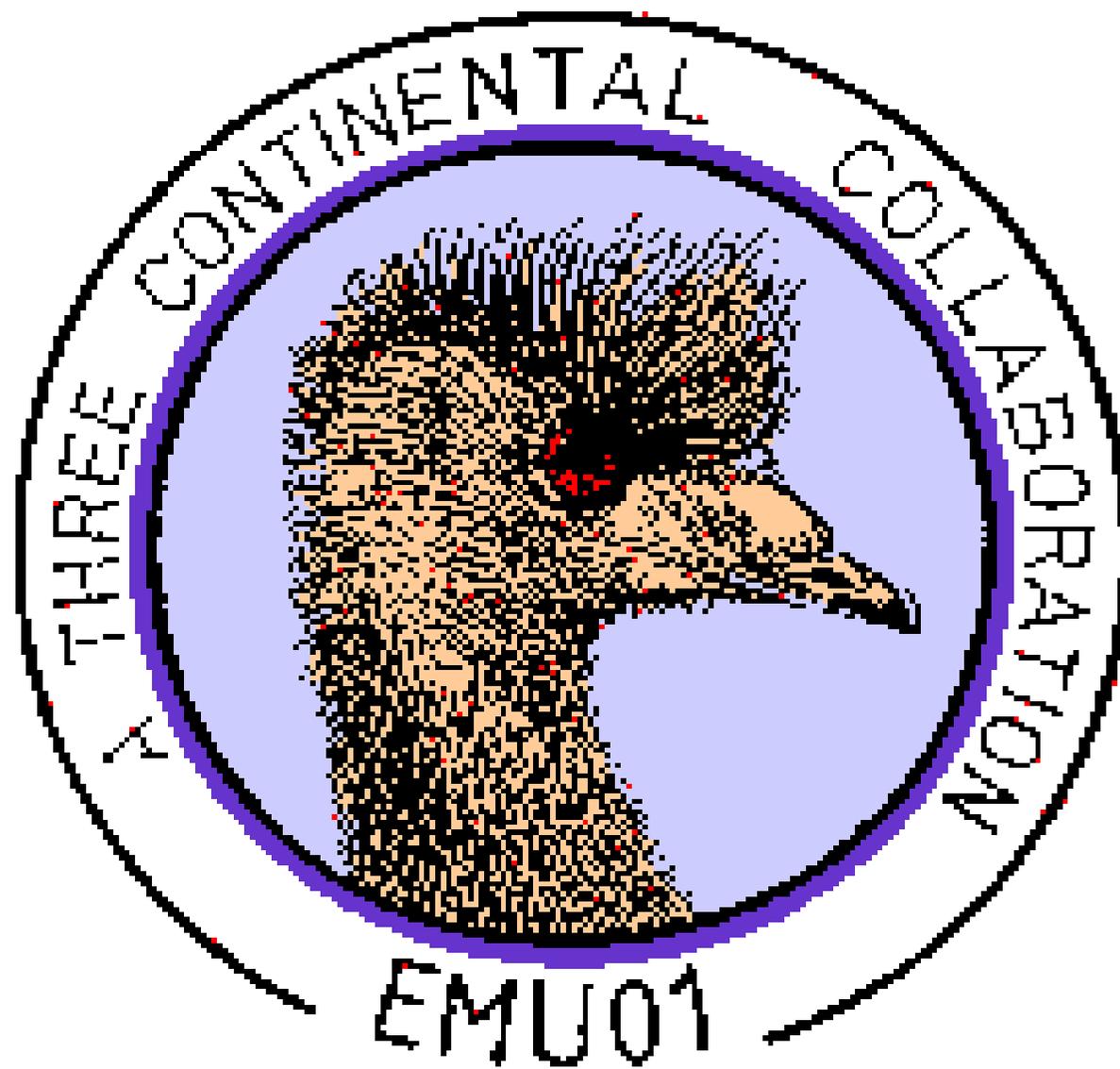
Intercosmos











- Production of Slow Particles in High Energy Heavy Ion Collisions
- Helium Production in 158A GeV/c Pb on Pb Interactions
- Helium Production in 10.7A GeV/c Au induced Nucleus-Nucleus Collisions
- Produced Particle Multiplicity Dependence on Centrality in Nucleus-Nucleus Collisions
- Complex Analysis of Au Interactions with Photo-Emulsion Nuclei at 10.7 GeV/nucleon within the framework of Cascade and Fritiof models
- Multifragmentation of Au Nuclei at 10.7 GeV/nucleon
- Nuclear Effect in Higher Dimensional Factorial Moment Analysis of ^{16}O -, ^{32}S -, & ^{197}Au -Em interaction data at 200, 60 and 11GeV/c
- Critical Behaviour in Au Fragmentation at 10.7A GeV/c
- Charged Particle Multiplicity Density and Fluctuations in Pb on Pb Interactions at 158A GeV/c
- Bounce-off in ^{197}Au Induced Collisions with Ag(Br) Nuclei at 116 A GeV/c
- Fragmentation and Multifragmentation of 10.6 A GeV Gold Nuclei

