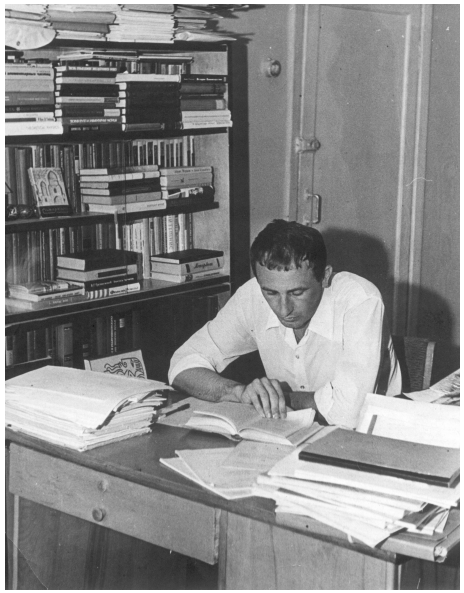
БЪЛГАРСКА АКАДЕМИЯ НА НАУКИТЕ

Celebrating Prof. Anton N. Antonov In Varenna 2018

Student time in Kharkov

Master and PhD
« Minimum Landau »

- *He had very good professors, as Mikhail P. Rekalo*
- *He met very good friends: A.P. Rekalo, G. I. Gakh, E.A. Kuraev….*



….and especially Krasimira, his wife!

…in Sofia

Professor

….teaching in Shumen and Sofia Universities

Scientific administrator

Head of the Nuclear Theory Group of INRNE, Sofia

Director of research

Superviser of 4 PhD (at least)

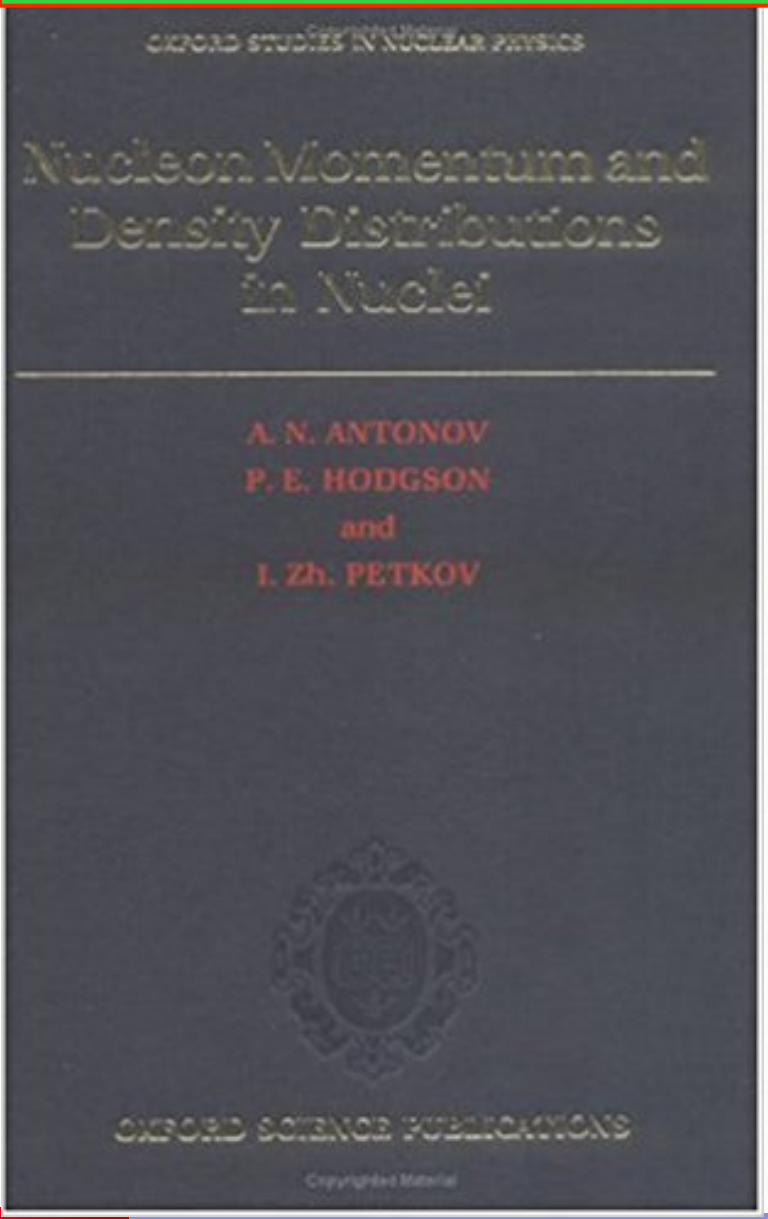
…now researchers or professors

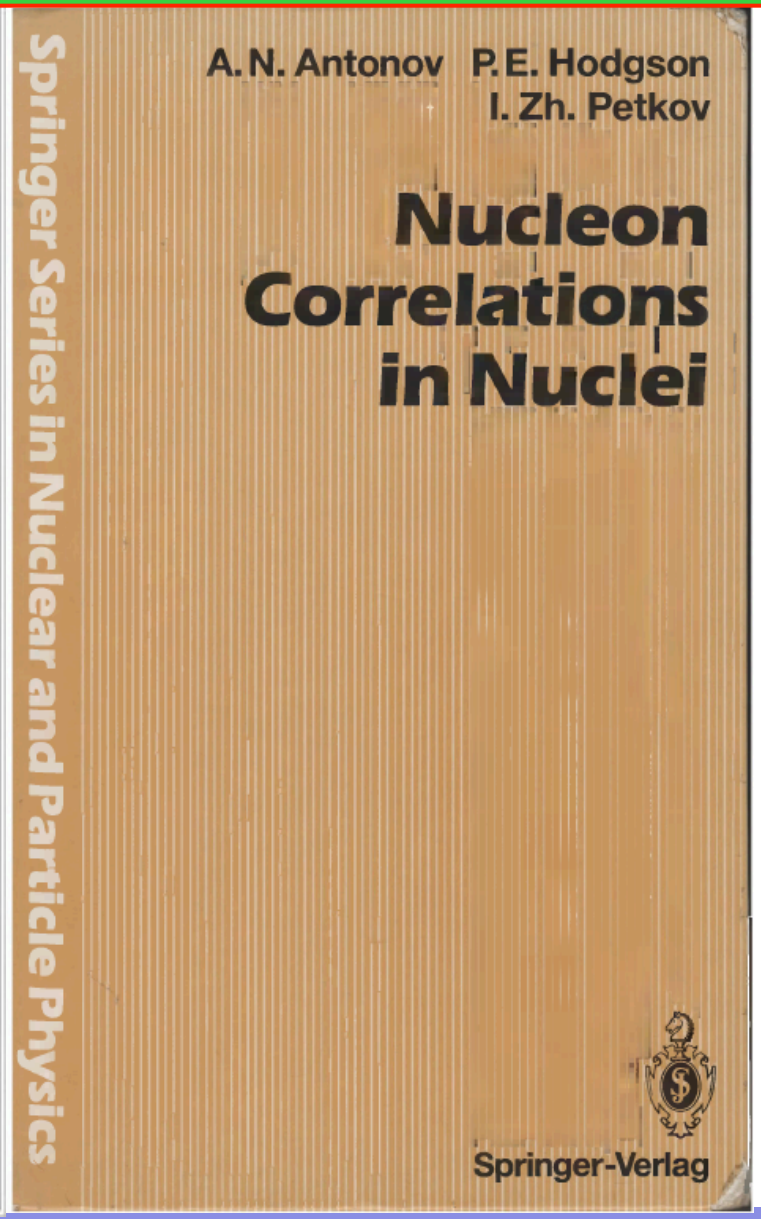
Head of international network

Collaborations with England, Spain, France, Japon, Kazakhistan, Dubna…

..about 300 publications and contributions to conferences + two monographs

TWO MONOGRAPHS





Oxford 1993

Peter E. Hodgson

Scientific achievements (see next talk !)

- Doctor of Science (superviser E.V. Inopin, Kharkov, 1972)
- « Nucleon-Nucleon Correlations and Characteristics of Nuclear Structure and Nuclear Reactions ».

- « THE EXPERT »' of nucleon-nucleon correlations (short-range, tensor, long-range..) that play important role in the structure of nuclei and the dynamics of nuclear reactions.

- Developed the Coherent Density Fluctuation Model (CDFM) (with I. Zh Petkov and V. A. Nikolaev)
  based on the delta-function approximation to the Generator Coordinate Method. The ansatz is that the One-body Density Matrix (ODM) of a finite nucleus can be expressed as an infinite superposition of ODM's of homogeneous pieces of nuclear matter, called « fluctons », of any size. The probability of each flucton is related to the density distribution of the nucleus.

- A number of applications: spectral functions and density distributions in nuclei, including exotic and halo nuclei, form factors of light nuclei, description of the scattering of protons and neutrons on nuclei, and, more recently, electrons and (anti)neutrinos on nuclei, explaining the evidence for superscaling

Final Announcement

SCIENTIFIC SESSION

dedicated to 70th Anniversary of Professor Anton N. Antonov

Dear colleagues,

Thank you very muc
session in honour of th
will be held on 23 Sept
Nuclear Energy (INRN
Bulgaria. The program
are reserved for two ni
Bulgarian Academy of
Blvd., http://www.hote
For those who still did
send this information b
With best regards an

of the Internati

Scientific Session
Dedicated to Anton N. ANTONOV
22-23 September 2013
SOFIA
Bulgarian Academy of Sciences

23 September 2013, Hall 300
Institute of Nuclear Research and Nuclear Energy, Bulgarian Academy of Sciences
Sofia, Bulgaria

10.30 - **Opening**
10.40 - **Dimiter Tonev**-Director of INRNE-BAS
10.50 - **Elvira Moya de Guerra** (Madrid, Spain): *Nuclear Physics Probed with Electrons. A view from the Sofia-Madrid Collaboration*
11.10 - **Carlotta Giusti** (Pavia, Italy): *Correlations, Overlap Functions and One and Two-Nucleon Knockout Reactions. Studying Correlations with Anton*

11.30 - **Marilena Avrigeanu** (Bucharest, Romania): *Key Effective Interactions for Nuclear Reaction Mechanism Account*
11.50 - **Pedro Sarriguren** (Madrid, Spain): *Neutron Skins in Spherical and Deformed Nuclei from Skyrme Hartree-Fock Calculations*

nformation Entropy to

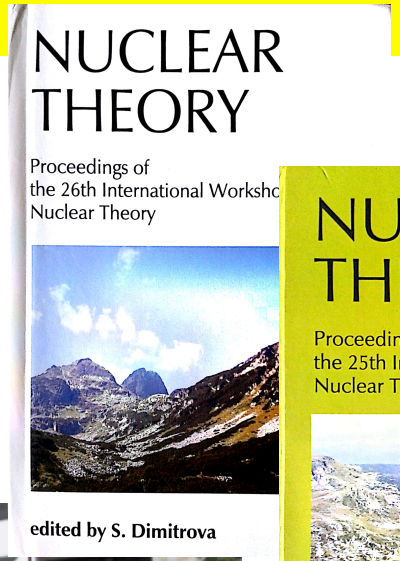
with Electrons and Neutrinos
netic Form Factors: The

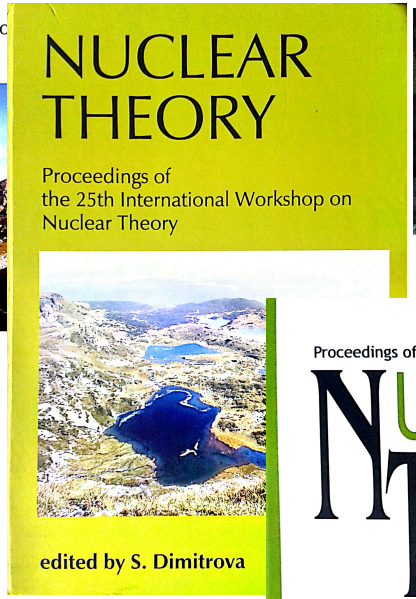
n Electromagnetic Processes
lucleus Reactions within the

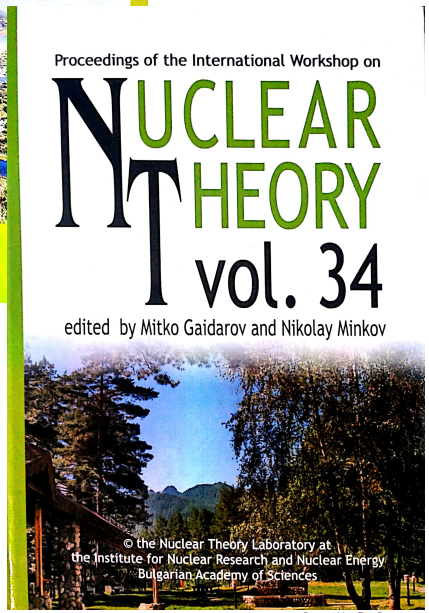
f Neutrinos with Nuclei:
re
ne is Prodigy, He is Talented

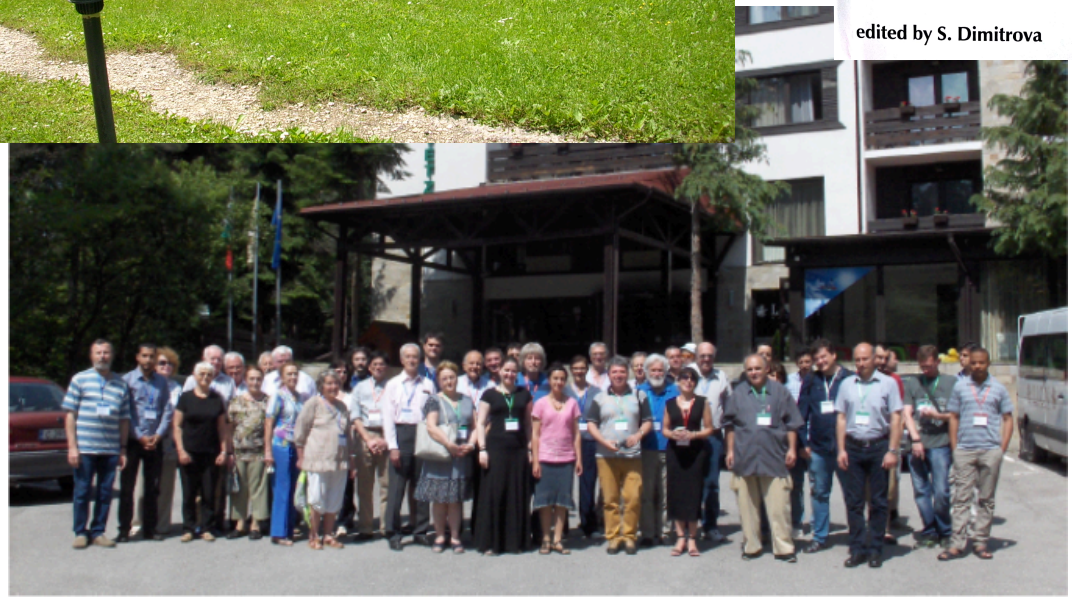
Organized by Mitko Gaidarov

International Workshop on Nuclear Theory IWNT- Rila Mountains









June 24-30: IWNT37-2018

Dubna, Russia

"JINR- Scientific Council"
Plenipotentiary of Bulgaria

February 2010

One common paper…

Cent. Eur. J. Phys. • 6(3) • 2008 • 491-497
DOI: 10.2478/s11534-008-0091-4

VERSITA

Central European Journal of **Physics**

Charge form factor and cluster structure of the ^{6}Li nucleus

Research Article

Galina Z. Krumova[1], Egle Tomasi-Gustafsson[2], Anton N. Antonov[3]*

$\alpha + d$ *separated clusters - exchanging nucleons*

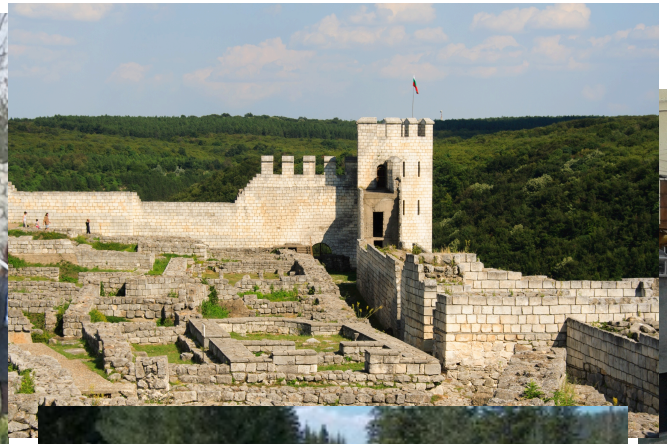
Theoretical scheme: folding deuteron and ^{4}He charge densities

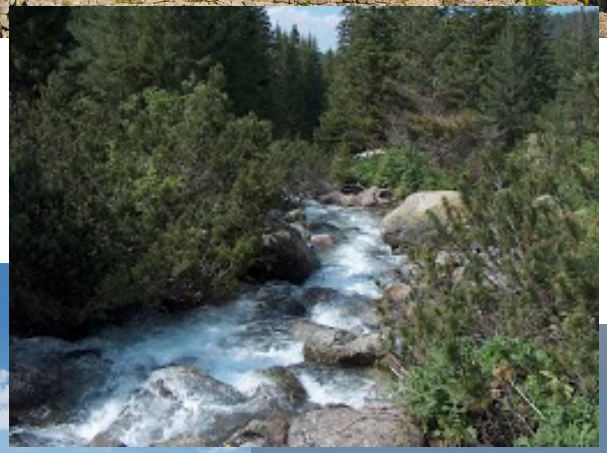
A.N. Antonov, ... PRC 72, (2005) 044307

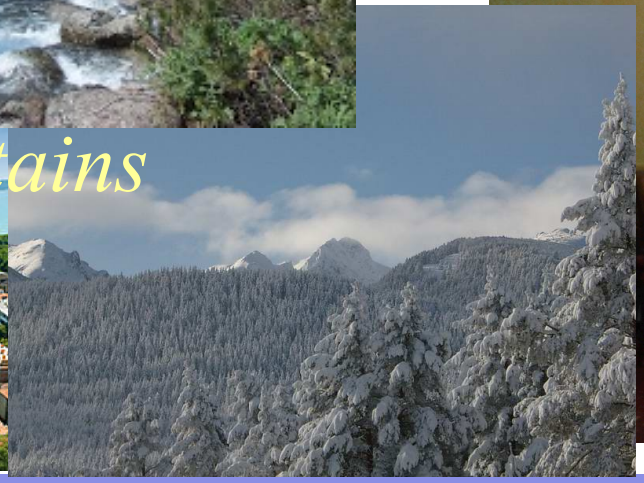
$$\rho^{ch}_{^6Li}(\vec{r}) = \frac{3}{2}\int d\vec{r}\,' \rho^{ch}_{^4He}(\vec{r}-\vec{r}\,') \rho^{ch}_{d}(\vec{r}\,')$$

*C. Adamuscin, G.I. Gakh and E.T-G. PRC **73**, 045204 (2006)*

History, Art, Music, Nature …







From sea to mountains

up to Anton's home and balcony…


Dear Anton,
It is my pleasure and privilege to congratulate
You for your brilliant career
and thank you for being an example
For the young generations, too.
I want to express my respect
And wish you many more ideas, good papers
..and pleasant time….especially
in this Varenna that you (and we all) love so much !