

2nd Hellenic Institute of Nuclear Physics Workshop (HINPw2) April 12, 2014

April 12, 2014

Department of Physics • Aristotle University of Thessaloniki

Photo-album





❖ **Audiance**



2nd Hellenic Institute of Nuclear Physics Workshop (HINPw2)

April 12, 2014 - Physics Department, Aristotle University of Thessaloniki



❖ *N. Alamanos*





❖ *I. Savvidis*





❖ *O. Sgouros*





❖ *V. Soukeras*





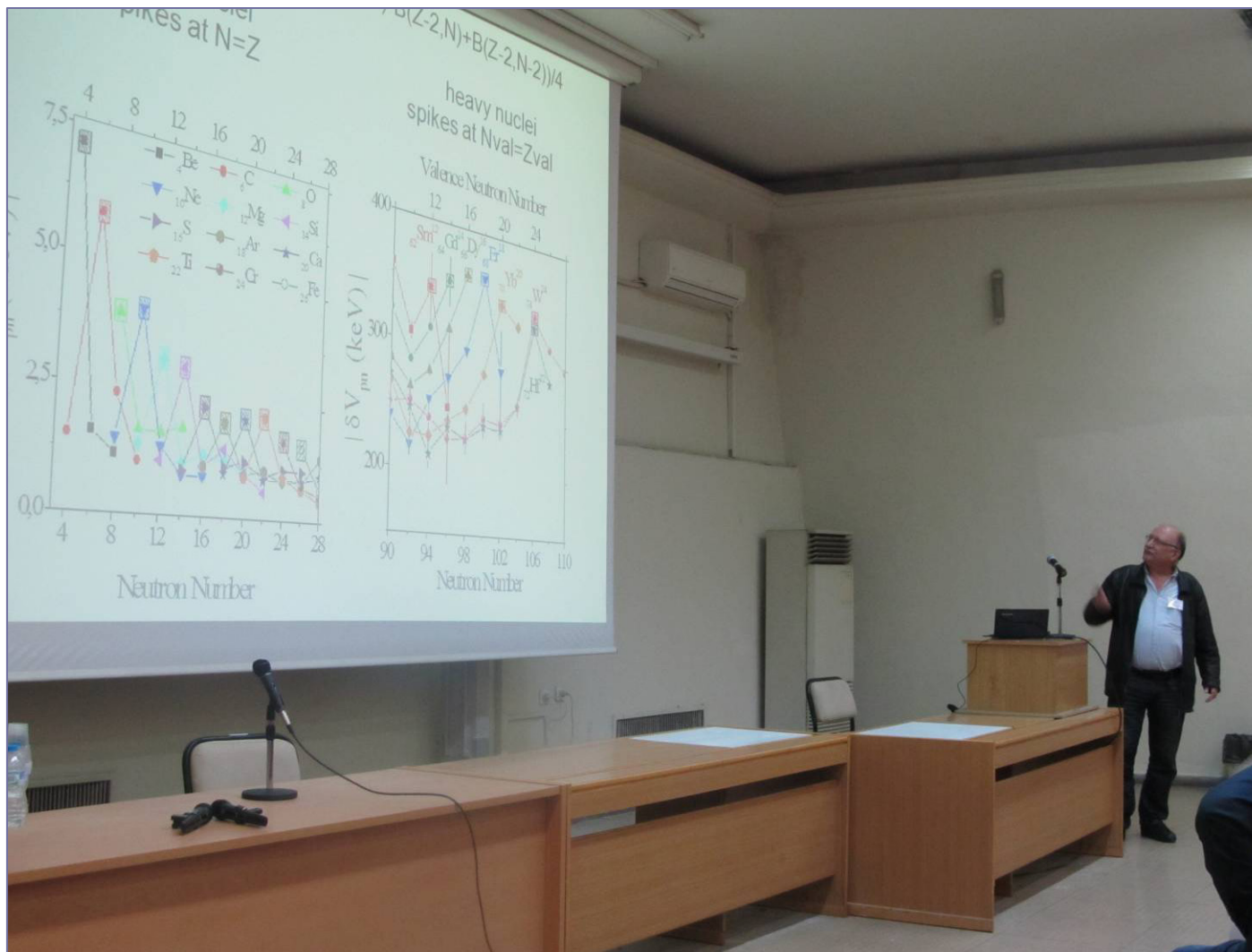
❖ *A. Georgiadou*





❖ *S. Massen – T. Kosmas*





❖ **D. Bonatsos**



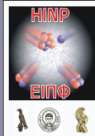


❖ *P. Georgoudis*





❖ *A. Martinou*



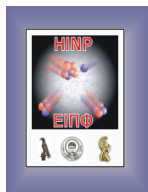


❖ *P. Giannaka*





❖ **E. Stiliaris**



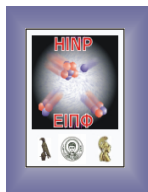


❖ *I. Savvidis – E. Stiliaris*





❖ *M. Zioga*





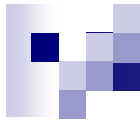
❖ *A. Rapsomanikis*





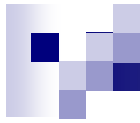
❖ *P. Misaelides*





❖ *A. Ioannidou*





❖ *A. Papamichail*





Model

and Teller, Phys.Rev 101 (1956)
Walecka, Phys.Rev. C83 (1974)
Boguta and Bodmer, Nucl.Phys. A292 (1977)

nuclear fields are obtained by coupling nucleons through the exchange of effective mesons through an **effective Lagrangian**.

$(J^P, T) = (0^+, 0)$ $(J^P, T) = (1^-, 0)$ $(J^P, T) = (1^-, 1)$

$S(r) = g_\sigma \sigma(r)$ $V(r) = g_\omega \omega(r) + g_\rho \vec{\tau} \cdot \vec{\rho}(r) + eA(r)$

sigma-meson: attractive scalar field omega-meson: short-range repulsive rho-meson: isovector field

A lecturer is visible at a podium on the right side of the stage, presenting the slide.

❖ G. Lalazissis



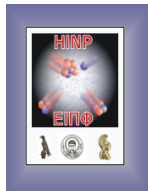


❖ *D. Bonatsos – V. Prassa*





❖ V. Prassa





Feynman diagrams contributing to LFV

- (a) SM Z-exchange neutral current ν -nucleus reactions
- (b) non-standard Z-exchange ν -nucleus reactions
- (c) Z-exchange and photon-exchange $\mu^- \rightarrow e^-$ in the presence of a nucleus (muon-to-electron conversion)

T.S. Kosmas and J.D. Vergados, Phys. Rep. 264 251 (1996).
F. Deppisch, T.S. Kosmas and J.W.F. Valle, Nucl. Phys. B 752 60 (2006).
D.K. Papoulias and T.S. Kosmas, J. Phys. Conf. Ser. 410 012123 (2013).
D.K. Papoulias and T.S. Kosmas, Phys. Lett. B 728 482 (2014)

Dimitrios K. Papoulias (Ioannina University) Exotic ν -nucleus reactions 9/18

❖ D. Papoulias





❖ *M. Papazoglou*

