



LUDWIK'S 80TH BIRTHDAY FEST

Early days of Ludwik Turko
at ITP in sixties and seventies

Prepared by J. L.



LUDWIK TURKO

- was born on February 17th, 1944 in Akmolinsk (Kazakhstan)
- after WW2 returned with his parents to Łódź
- 1952-1966 – studies of physics at Dept. of Mathematics and Physics at Łódź University
- September 1967 – arrival to Wrocław Univ., further PhD studies at our ITP



OUR IFT IN SIXTIES

- 1960 – at UWr created Institute for Theor. Physics ; first Director: Prof. Jan Rzewuski
- 1966 – there are opened Ph.D studies in Theoretical Physics at IFT
- 1967 – I got my habilitation in perfect coincidence with Ludwik's arrival to Wrocław. He was my second PhD student (out of 18 I did have)



LUDWIK'S PHD DISERTATION

About the description of elementary particles and resonances with the use of parastatistics. At that period there appeared in experiments resonances – unstable strongly interacting particles – a challenge for the theoretical description.

O.W. Greenberg (1961) introduces generalized free fields, with propagators having continuous mass spectrum. For description of resonances: effective Breit-Wigner formula parametrized by complex mass square parameter.

Ph.D defense of Ludwik – in 1971

Ludwik celebrating his PhD

Ludwik scientific activity in 70's (1)

We published in first half of 70's together 3 papers – two about the field-theoretic models of Lee and Zachariasen and third paper about the description of vector dominance model, with virtual exchange of unstable ρ resonance.

In 1976-78 Ludwik became (informal) supervisor of T. Grabińska with her PhD about decay of fireballs, using the formalism of interacting clusters with continuous mass spectrum.



Ludwik with his children

Ludwik scientific activity in seventies (2)

In second half of seventies Ludwik started the collaboration with Krzysztof Redlich who in 1976 completed in Wroclaw his physics studies. Just in time in 1979 Ludwik obtained his habilitation and Krzysztof could make legally under Ludwik's supervision his PhD degree. Two important papers from 1980 and 1981 are related with this PhD, they deal with statistical bootstrap model:

- L.Turko, K.Redlich (Zeitschr. Physik (1980)) – cited 206 times
- L.Turko (Phys.Lett.B (1981)) – cited 155 times

These articles are the only two „no-big-collaboration” Ludwik's research papers with more than 100 citations.

Ludwik as Scientist and Politician (1)

One can divide the life story of Ludwik into the three periods:

- 1) First SCIENTIFIC PERIOD: 1967-1980
- 2) In January 1981 Ludwik is elected as the Head of Solidarity at Wrocław University – huge trade union organization opposing the socialist pro-soviet regime in Poland – in such way starts second POLITICAL PERIOD (1981-2001) in life of Ludwik
 - in 1982 Ludwik is imprisoned for many months
 - in 1983 - 1987 actively participates in Polish underground opposition activity

Ludwik as Scientist and Politician (2)

- 1991 -1997 – for two terms is elected as the member of Polish Parliament (Sejm)
 - 1997 -2001 – elected by Sejm as the Judge in Polish State Tribunal
- 3) SECOND SCIENTIFIC PERIOD (from 2002) – Ludwik comes back to science, becomes again active scientist
- In 2007 obtains the title of full profesor („belweder professor”)
 - After TWO papers from 1980-81 with more than 100 citations he adds participation in FIVE big collaboration publications with more than 100 citations (the most cited, with 485 citation, is the paper published in 2006 in „Journal of Instrumentation”)

Ludwik with Lech Wałęsa (1989)



Wałęsa looks like trying to recall something before his speech – or expresses in such a way the difference of opinion with Ludwik:)

With wife Bogda during his 70th birthday (2014)



Back from
physics and
politics to the
pleasures
of private
life

Ludwik as witness at my wedding with Ela (1985)



One says
in Polish:
„do trzech razy
sztuka”, or in
free translation
„one should try
three times”

Picture in Yellowstone Park made by Ludwik Turko

**Happy Birthday
- and best wishes
of hundred years!**

