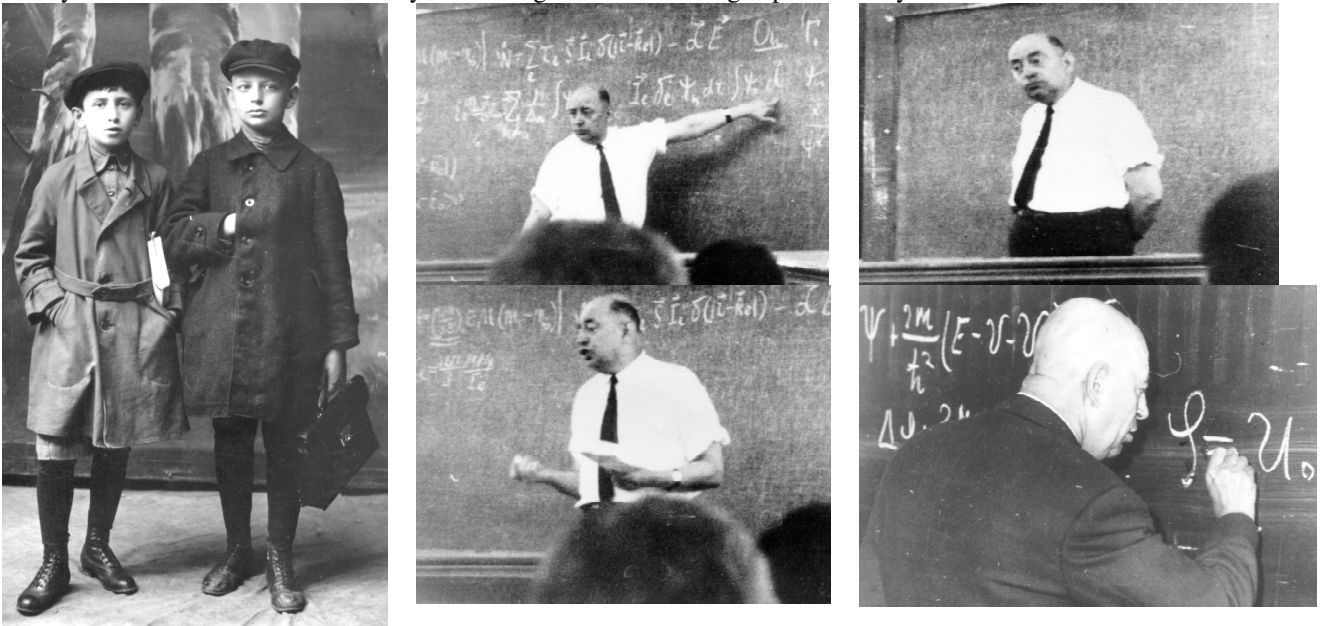


## Lectures, Presentations etc. (Only for subscribers)

SPQEO Journal continues the rubric “Lectures, Presentations etc.” This issue is devoted to 100<sup>th</sup> anniversary of Prof. Mykhailo Deigen. These presentations were represented in June, 2018. Both biographical facts and scientific features of Prof. M. Deigen are available.

### Lecture 1. “To the 100<sup>th</sup> anniversary of Mykhailo Fedorovich Deigen” by Prof. Bella D. Shanina.

Here you can find the life course of Mykhailo Deigen since school age up to maturity.



### Lecture 2. “M.F. Deigen and electron-phonon interaction” by Prof. Vyacheslav O. Kochelap.

Significance of scientific contribution to world science could be illustrated by the letter of Emmanuel Rashba to the 100<sup>th</sup> anniversary of the birthday of Mykhailo Deigen:

“I remember Mykhailo Fedorovich from 1947, when after army duty he became one of the post-graduate students of Prof. Pekar and worked on the polaron theory.

The most important result of this work was opening of deformation potential (M. Deigen and S. Pekar, 1950), simultaneously with J. Bardin and W. Schokley, and irrespective of them.

Subsequently Mykhailo Fedorovich has found the radiospectroscopy laboratory uniting experimenters and theorists. It was issued after creation of the Institute of Semiconductors (in 1960 – ed.) and became one of its best laboratories.

Unfortunately Mykhailo Fedorovich has early died.

E.I. Rashba, Harvard, the USA”

Some illustrations of theoretical point of view on condensation are given, for example, the determination of condensation in strong magnetic field:

$$\Psi(\mathbf{r}) = \frac{1}{\sqrt{\pi}r_H} \exp\left\{-\frac{r^2}{r_H^2}\right\} \Phi_0(z)$$
$$z_0 = \frac{4\pi\hbar^2 r_H^2 \Lambda}{m_* b^2}$$

L.S. Kukushkin, *Journal of Experimental and Theoretical Physics Letters*, 1967, 7, 251