Half of the century story of semiconductors in the Institute of Physics and in Jaszowiec - a couple of examples

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Since the foundation of the Institute of Physics, Polish Academy of Sciences (IFPAN) in 1953, semiconductor physics has been its main research activity, a non-surprising fact considering that Professor Leonard Sosnowski [1-3] was the IFPAN director in the years 1954-1966. IFPAN's Professor Witold Giriat, after his return from a post-doc stay abroad, initiated the Jaszowiec meetings in 1970 [4,5]. At the fifty Jaszowiec events, IFPAN researchers delivered over 30% of invited talks presented by delegates of Polish institutions.

In the talk, partly using information gathered recently [6], I will present a couple of lasting scientific achievements accomplished by semiconductor physicists at IFPAN over the last 50 years or so.

[1] J. Starkiewicz, L. Sosnowski, and O. Simpson, "Photovoltaic effects exhibited in high-resistance semi-conducting films", *Nature* **158**, 28-28 (1946).
[2] L. Sosnowski, J. Starkiewicz, and O. Simpson, "Lead sulphide photoconductive cells", *Nature* **159**, 818-819 (1947).
[3] L. Sosnowski, B. W. Soole, and J. Starkiewicz, "Occurrence of random photovoltaic barriers in photoconductive layer", *Nature* **160**, 471-472 (1947).
[4] A. Mycielski, "Witold Giriat (1926 - 2001)", *Post. Fiz.*, **52**, 192-194 (2001).
[5] R. Brazis, "Witold Giriat: wygnaniec znad rzeki Dzisny, prekursor spintroniki", *Studium Vilnense A* **12**, 45-51 (2015).
[6] T. Dietl, "From Narrow-Gap and Semimagnetic Semiconductors to Spintronics and Topological Matter: A Life with Spins", *Acta Phys. Pol. A* **139**, 355-376 (2021); arXiv:2103.07456.