



IFGW

“Gleb Wataghin” Institute of Physics

The IFGW has an advanced laboratory center equipped with, among other resources, a high-performance computing center, teaching and research laboratories with state-of-the-art equipment and a Multi-User Laboratory (*Laboratório Multiusuários - Lamult*) that offers a sophisticated infrastructure commonly used by teachers and students. The IFGW library is one of the largest at Unicamp, and its collection includes books, journals and databases, in addition to electronic and printed sources.

The Institute today is a far cry from the modest settings where its activities began in 1967. There was no campus at the time, and the Physics program was initially taught at rented facilities of an industrial school in Campinas. However, the precarious facilities did not prevent a promising group dedicated to cosmic ray research - led by none other than César Lattes, an already internationally renowned researcher for his studies in the field - from establishing themselves there. Lattes's group originated the current Department of Cosmic Rays of the Institute, whose name pays homage to the Ukrainian scientist Gleb Wataghin, who is considered the father of Experimental Physics in Brazil.

A world-renowned research institute since its inception, “Gleb Wataghin” Institute of Physics - IFGW is recognized as one of the leading Latin American research centers. IFGW brings together researchers with studies of international impact and is prominent in both basic and applied research. The Institute has played a key role in technological developments in the country, as in the case of optical communications. Many technology companies have been created by IFGW staff and alumni, contributing to Campinas becoming a high-tech center.

IFGW currently has 41 research groups in 4 departments: Quantum Electronics; Applied Physics; Condensed Matter Physics; and Cosmic Rays and Chronology. The research conducted at the Institute is distributed over nearly every field in Physics, from Cosmology and Astrophysics to Quantum Physics, from Photonics and Ultrafast Phenomena to Telecommunications, from Biophysics and Biophotonics and Medical Physics to Nanoscience.

More than 600 PhD and 900 MSc degrees have been awarded by IFGW, and its graduate program continually receives a score of 7 (highest score) from the Coordination for the Improvement of Higher Education Personnel (*Coordenação de Aperfeiçoamento de Pessoal de Nível Superior - Capes*) assessments. The Institute produces approximately 250-300 indexed publications per year, with an approximate mean impact factor of 3, according to ISI-Web of Science. Approximately 50% of these studies are Qualis A1 and A2 rated in the fields of Physics and Astronomy, and 40% have graduate students among the authors.

Regarding the undergraduate program, IFGW offers the following degrees: BSc. in Physics, BSc. in Medical Physics, BSc. in Physics with a minor in Biomedical Physics, Engineering Physics, Licensure in Physics (all full-time) and Licensure in Physics (evening degree). On average, a total of 80 students graduate annually from the Institute.

Undergraduate students	700
Master's students	100
PhD students	150
Faculty	90
Staff	160



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