

Curriculum Vitae

Personal Information

Name: Filippov Valentin Petrovich

Date of Birth: 19.03.1939

Academic Position: professor

Institution: *National Research Nuclear University "MEPhI",*



Academic Qualifications

Professor

Academic Employment

Stagier- investigator ,post graduate student, junior scientist, senior scientist, deliver of lectures (dozent), professor of department of Applied Nuclear Physics

Statement of Research

Applied nuclear physics, Nuclear physics method: Mossbauer spectroscopy, positron annihilation, activation analyse of materials, Investigations of zirconium alloys and their oxide films.

Development of Mossbauer spectroscopy for molecular analyse of gases and determination of materials properties/

Existence of Zr_2Fe in Zr-Fe alloys is proved experimentally

Formation of metallic particles of α -Fe and β -Sn in zirconium oxides films is opened/

It found the correlation between corrosion resistance of zirconium alloys and relative concentrations of Fe and Sn metallic particles- and oxides phases of Fe in ZrO_2 .

It is explain positive role of doping with iron atoms of Zirconium alloys and it is presid the theory of corrosion of Zr alloys

Experimentally proved the existence correlation between radiation growth of zirconium alloys in Nuclear reactors and states of iron atoms in alloys..

The methods of gas molecular state are developed.

Publications more than 150, patents-9, manuals for students-15.