Linear accelerators and its applications in Ukraine
KIPT belongs to the founders of:
- linear accelerators (electrons, protons, ions);
- radiation material science;
- nuclear and photonuclear physics etc.

It actively participated in the development of many areas of physics and engineering, on which is based modern radiation and nuclear technology.
Main technological areas:

1. Radiation processing of various products (including medical) and materials

2. Development of photonuclear method of production of medical isotopes

3. Nuclear medicine.
Radiation processing

Works which are performed:
• radiation processing medical products (bandages, cotton wool, disposable medical clothes and coverings, gynecological sets, blood transfusion systems and scarifiers, utensils);
• radiation processing of finished pharmaceutical forms and raw materials;
• radiation modification of semiconductor and polymer materials and products.

In 2008, only the KIPT was performed 345 orders on radiation treatment (basically, sterilization) from 34 organizations in Ukraine.
LIC
W up to 60 MeV
P=100 W

KUT-1
W up to 10 MeV
P up to 10 kW

EPOS
P up to 20 kW

LUE-40
W up to 60 MeV
P=100 W

KUT-30
W up to 45 MeV
P up to 20 kW
LUE-10
W up to 10 MeV
P up to 10 kW
Currently, in Ukraine, there are organizations (KIPT, IAP etc) which are able to provide the possibility of developing a full production cycle - from development of a specialized accelerator, to realization of industrial radiation processing on the basis of linear accelerator.
Thank you for attention!