

# International Conference on Applications of Radiation Science and Technology



Contribution ID: 102

Type: Oral

## ILU Industrial Electron Accelerators

*Wednesday, 26 April 2017 10:00 (20 minutes)*

ILU electron accelerators designed and produced in Budker Institute of Nuclear Physics are working in industry and in research organizations.

ILU-8 and ILU-10 machines have single-cell cavities, their maximum energies are 1 MeV and 5 MeV, maximum beam powers are 20 kW and 50 kW respectively. The recently developed ILU-12 and ILU-14 machines have multi-cavity accelerating structures, their energy ranges are 5-7,5 MeV and 7,5-10 MeV, maximum beam power of ILU-14 is 100 kW.

Radio frequency (RF) generators of the ILU machines are based on pulse vacuum triodes.

Compact accelerator ILU-8 with energy up to 1 MeV is using mainly for wire irradiation, it has local radiation shield.

All other ILU accelerators can be supplied with X-ray converters and can work in X-ray generation mode.

Powerful ILU accelerators are used for wires, cables and pipes modification as well as for medical device sterilization and food irradiation.

### Country/Organization invited to participate

Russian Federation

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**Session Classification:** A08

**Track Classification:** IRRADIATION FACILITIES