Contribution ID: **28** Type: **not specified**

RTU High energy physics and accelerator technology centre activities in Accelerator Projects

Riga Technical University High Energy Physics and Accelerator Technology centre's one of two core specialisations is accelerator technologies with established three main research directions: innovation and development of accelerator technologies; accelerator medical application and accelerator environmental applications. All those research directions are related to accelerator technology projects where the centre researchers have been involved and students' thesis are related to projects.
Within the project, Innovation Fostering in Accelerator Science and Technology our team is involved in the development of accelerator technologies and environmental applications as well as project management, coordination and dissemination tasks.
Hadron therapy for cancer treatment is studied in the Heavy Ion Therapy Research and Integration plus project and our team is in the tasks that are covering innovative high-frequency linear accelerator design research and Integration of an innovative superconducting gantry by dealing with mechanical designs, systems and concepts.
Within Next Ion Medical Machine Study project is working towards developing new technologies for the future generation of accelerators for cancer therapy.
Hybrid Exhaust-gas-cleaning and Accelerator Technology for International Shipping Collaboration was established between multiple partners based on promising results of the Accelerator Research and Innovation for European Science and Society PoC where the Development of a hybrid electron accelerator system for the treatment of marine diesel exhaust gases.
That all is collaborative work with field experts and that provides promising outcomes.

Primary author: RATKUS, Andris (Riga Technical University (LV))

Presenter: RATKUS, Andris (Riga Technical University (LV))