

Gradignan, January, 24 2020

Referee report for the **51st meeting of the PAC for Nuclear Physics**

Project "Modernization of the EG-5 Accelerator and Development of its Experimental Infrastructure"

The propose project aims to modernize the Van de Graaff electrostatic generator, EG-5 installation, at JINR.

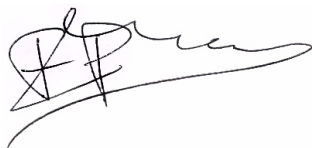
Thanks to the characteristics of the beam EG-5 accelerator allows a wide range of non-destructive measurements to measure quantitatively and spatially elements for solid state physics or biology per example.

The project requires to change essential components of the accelerator to ensure a new cycle of 20 years with the upgrade of some of the associated facilities. It is planned to develop complementary methods to study the electrical, optical and electronic properties of the surface of the objects as well as a sample preparation area.

Some information should be added about the time beam repartition amongst the user, in the current situation and the future, the needed manpower to realize on time the full upgrade and a detailed budget on the different parts of the project.

Such accelerator is very important for a center like JINR allowing links between solid state physics, electronics, biology and may other fields. It would be surely interesting to establish links with other similar platform to give a high visibility to this platform.

In conclusion, there is no doubt that this project should be supported but additional information should be given in the proposal.

A handwritten signature in black ink, appearing to read 'Fabrice Piquemal', written over a horizontal line.

Fabrice Piquemal

Director of CENBG