



PETRUSHINA IRINA

07.10.1989

RUSSIA, MOSCOW

NATIONAL RESEARCH NUCLEAR UNIVERSITY “MEPHI”

26 July, 2012



EDUCATION

2007-present



**National Research Nuclear University
Moscow Engineering-Physics Institute (MEPhI),**

Faculty: Automatics and Electronics;

Department: Electrophysical Devices

- GPA: 4.6 (max 5.0)
- Personal Scholarship
- O.A. Valdner Scholarship
- President of Russian Federation Scholarship

WORK EXPERIENCE

2010-present

RF-Engineer

**National Research Nuclear University
Moscow Engineering-Physics Institute (MEPhI)**

- RF-units development and simulations
- Multipacting discharge simulations

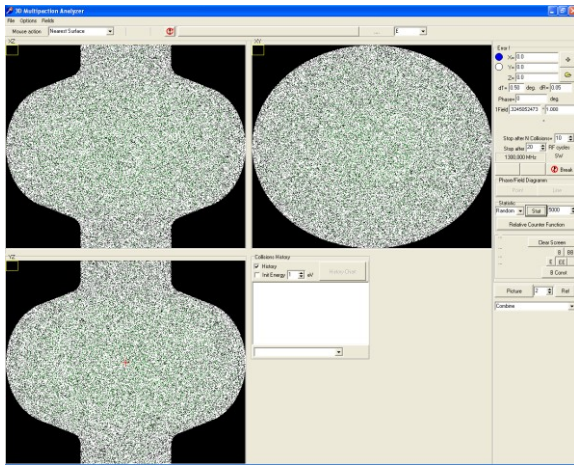
IT SKILLS

Overall: Advanced user

General Software: MS Windows, MS Office

Professional Software: CST Microwave Studio,
MathCad, Matlab, MultP-M

PUBLICATIONS



XXII International Workshop on Charged Particle Accelerators September 22-28, 2011, Ukraine, Alushta, the Crimea:

- *Research of eLINAC accelerator superconducting cavity*
MEPhI Scientific Sessions, 2012:

- *Multipactor discharge in units of eLINAC*

XV International Telecommunicational Conference of Young Scientists and Students “ Youth&Science”, 2012:

- *Multipactor discharge in superconducting cavity of eLINAC*

- *Multipactor discharge in coupler of eLINAC*

TASK: Multipactor simulations in the cathode area of the Gun 4

PLAN OF THE WORK:

1. a) Field calculations with acceptable mesh
b) Multipactor simulations by Tracking solver
2. Calculations with fine mesh
3. Multipactor simulations by MultP-M 3D
4. Multipactor simulation in the Gun 5

