

CENTER OF NANOMATERIALS RESEARCH (CNR)

Needs of maintenance and repair of equipments (February 2017)

Laboratory of Novel Magnetic Materials (LNMM) (Team leader: Valeria Rodionova)

Equipment	Cost (rubels)
LN generator needs maintenance/repair (helium head is out of service)	100.000
Technical support and maintenance for air and helium compressor - filters, compressed helium, caskets for helium head. (estimated cost per year)	50.000
Lakeshore 7404 System Vibrating Sample Magnetometer	
3 of high purity of N2 cylinders (40 litres) / year	4.500
2 of high purity of Ar cylinder (40 litres) / year	12.000
Magnetron sputtering	
Substrates, kapton tape, microfiber napkins, gases	500.000
Targets	500.000
Differential scanning calorimeter NETZSCH 204 F1 Phoenix	
Aluminium disposable crucibles 30.000 rubles	30.000
4 N2 cylinders (40 litres)	6.000
Setup for measuring of the magnetostriction properties	
Disposable tensosensors	5.000
Total	1.207.500

**Research and Education Center “Fundamental and Applied Photonics. Nanophotonics”
(team leader: Ilia Samusev)**

Equipment	Cost of repair	Cost of consumables
Scanning AFM-optical confocal microspectrometer Raman and fluorescence spectra for use in the visible and ultraviolet range.	AFM module: 150000 Service of confocal: 140 000 rub Microspectrometer: 110 000 rub	SERS substrates: 114700 rub Pincets, dyes, chemistry: 300 000 rub (need for PhD)
TOTAL 814.700 rubels	400.000 rubles	414.700 rubels
