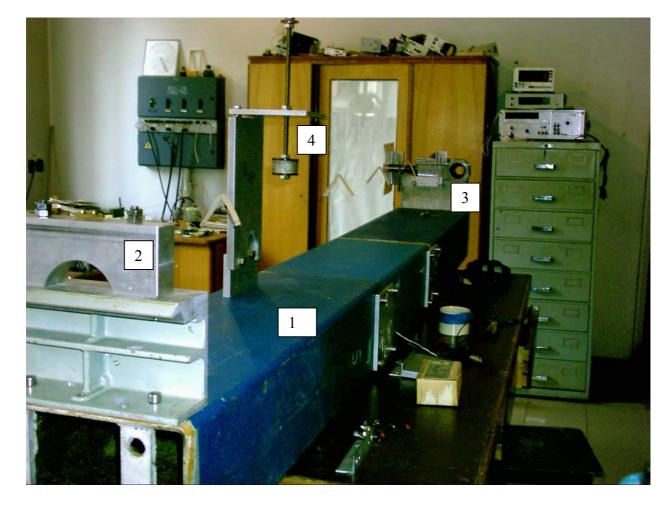
N.A.Morozov

State of the vibrating wire stand and the NMR and Hall magnetometers manufacturing



Dubna, 28-29 October 2004.

Fig.1. Overall view of the test stend

- 1 steel table;
- 2 rock with fixed end of wire;
- 3 rock with end of wire under tension (Fig.2-4);
- 4 tested PM magnet (Fig.5).

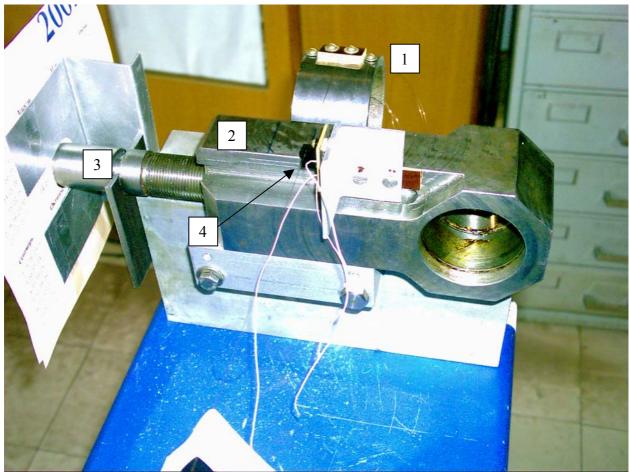


Fig.2. View of the rock with tensioned end of wire.

- 1 cylinder for the wire end fixation and tensioning;
 2 moving support for the optic sensor position adjustment;
 3 screw for the support moving;
- 4 optic sensor.



Fig.4. View of the rock with tensioned end of wire.

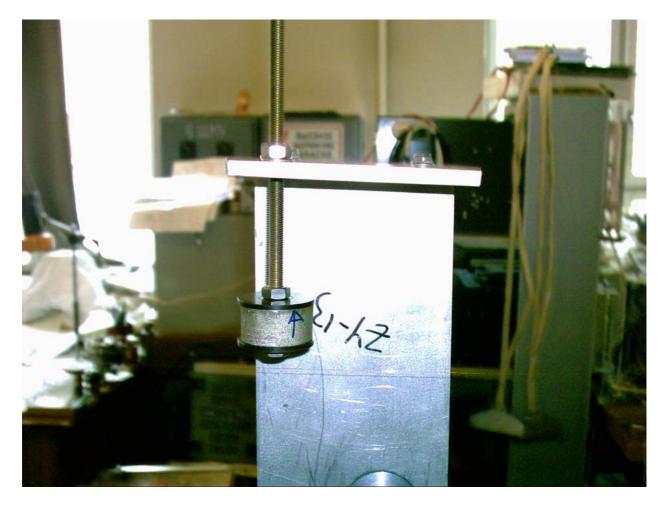


Fig.5. Cylindrical PM for testing.

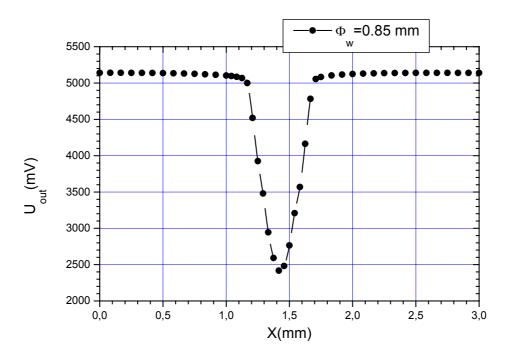


Fig.6. Position sensor signal versus horizontal wire position ($\emptyset_{wire}=0.85 \text{ mm}$)

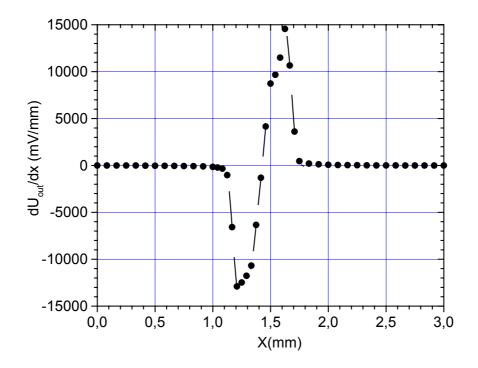
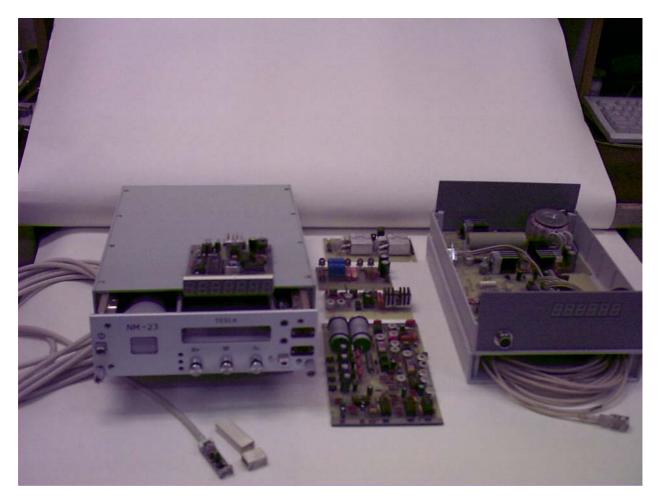


Fig.7. Derivative of the position sensor signal versus horizontal wire position ($\emptyset_{wire}=0.85$ mm)



NMR (left) and Hall magnetometer before final mounting

Finishing of the work – Dec.04 – Jan.05

Mounting of the elements. Manufacturing of 8 NMR probes. Commissioning. Calibration of the Hall magnetometer (by special made magnet with maximal field 0.8 T). Preparing of the technical documetation.