

Magnets alignment using vibrating wire: latest results

Tuesday, 21 March 2017 14:40 (25 minutes)

Up to date Vibrating wire magnetic field measurement technique was used in many occasions for alignment of magnets with “zero” field on axis such as quadrupoles, sextupoles and solenoid magnets.

Addressing the need of the next generation of synchrotron radiation sources such as APS-U, ESRF, CHESS-U required precise alignment of quadrupole magnets with dipole field on magnetic axis (CFM), we developed a new approach for using the Vibrating Wire technique for alignment of this type of magnets.

In the talk I will present ideas of the approach as well as the results of prove of principle experiments performed in CERN with help of PACMAN students and in Cornell.

Primary author: Dr TEMNYKH, Alexander (Cornell University)

Presenter: Dr TEMNYKH, Alexander (Cornell University)

Session Classification: Magnetic measurements