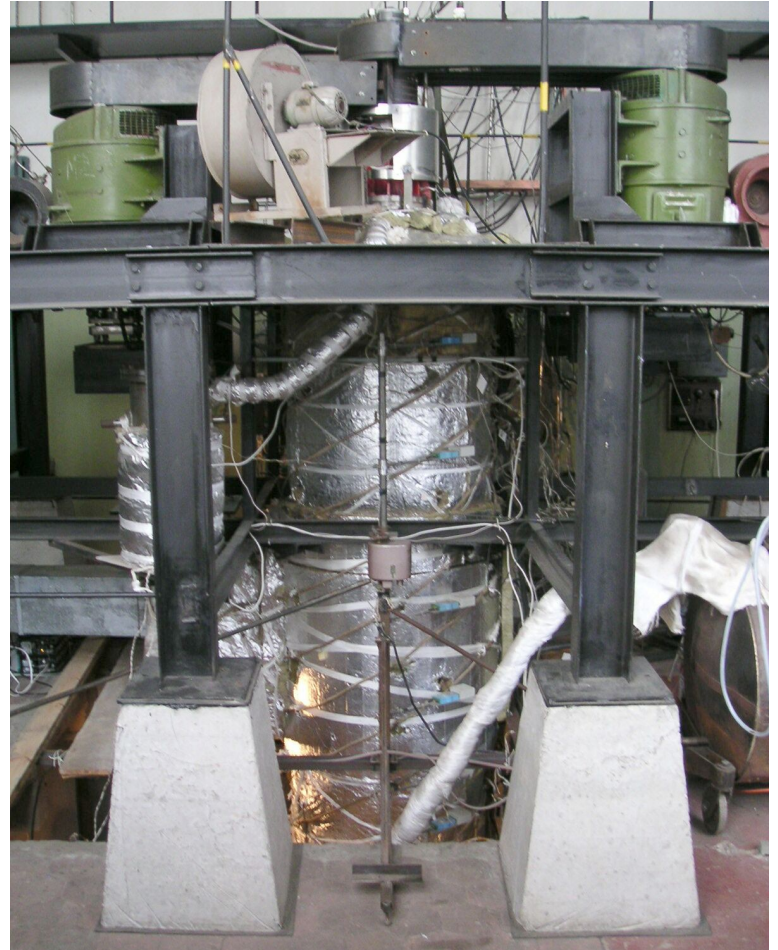
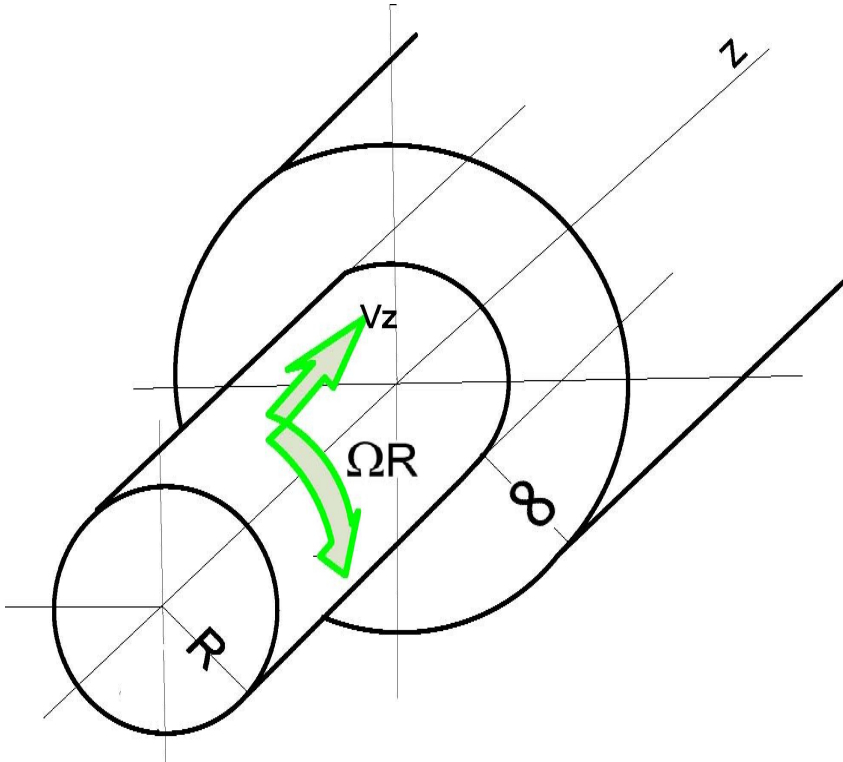
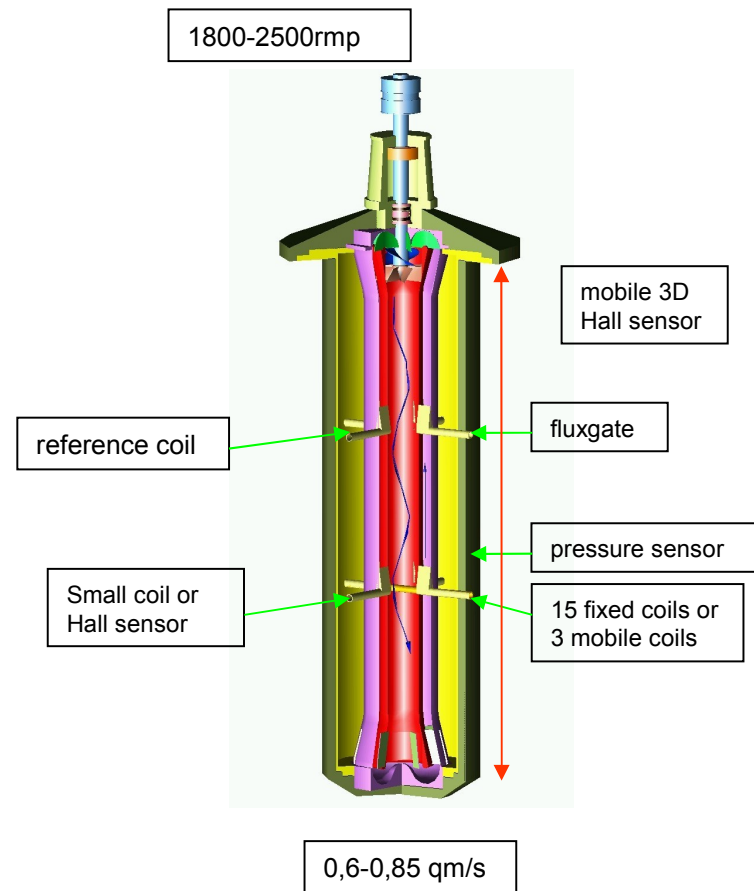
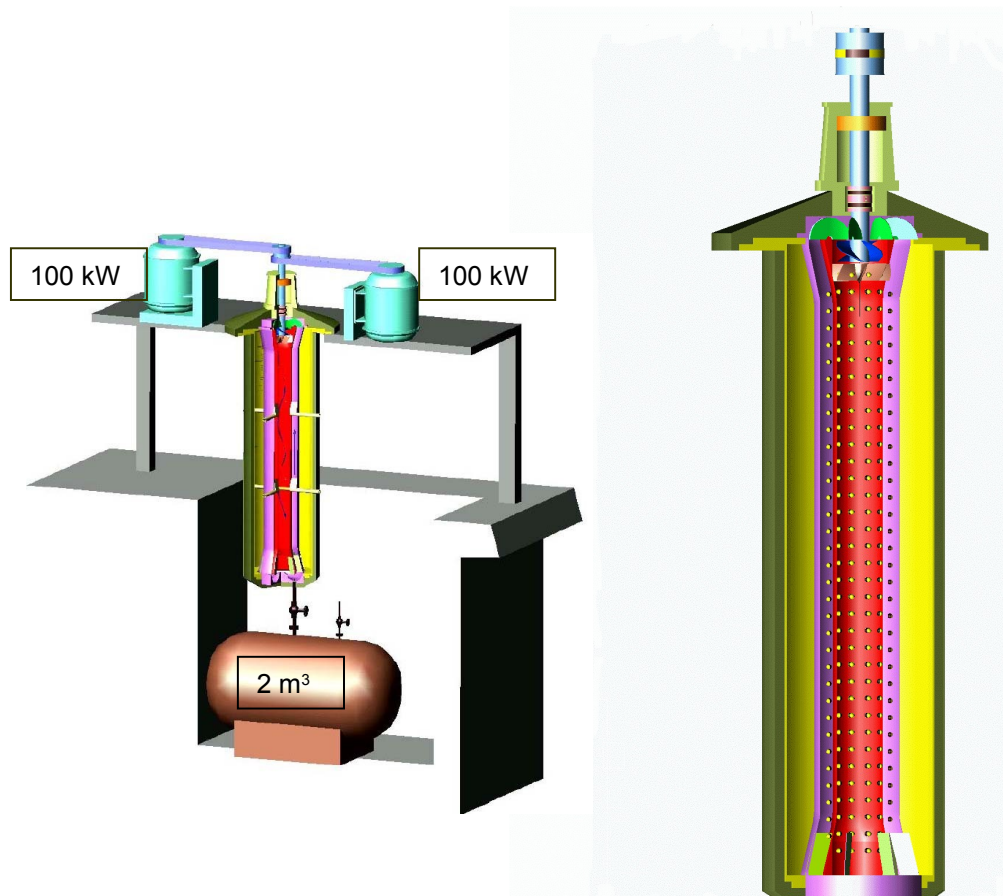
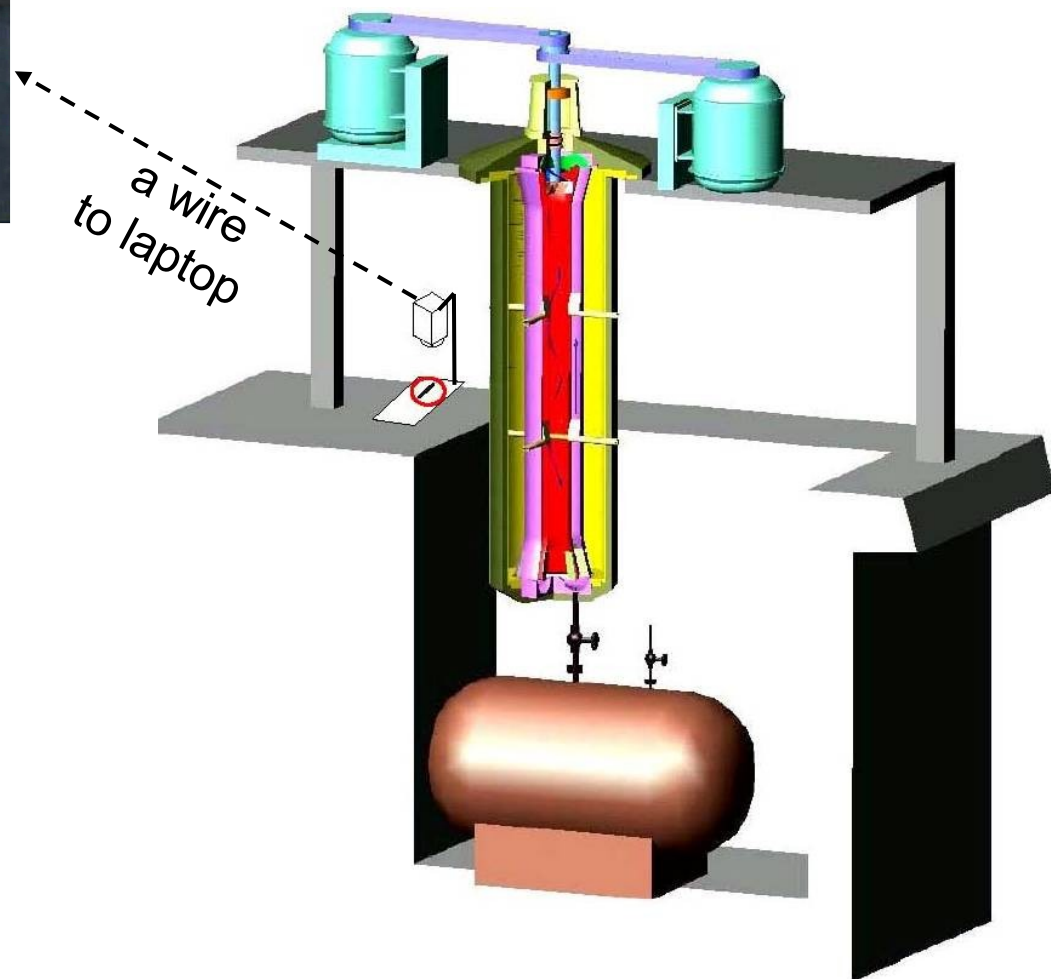
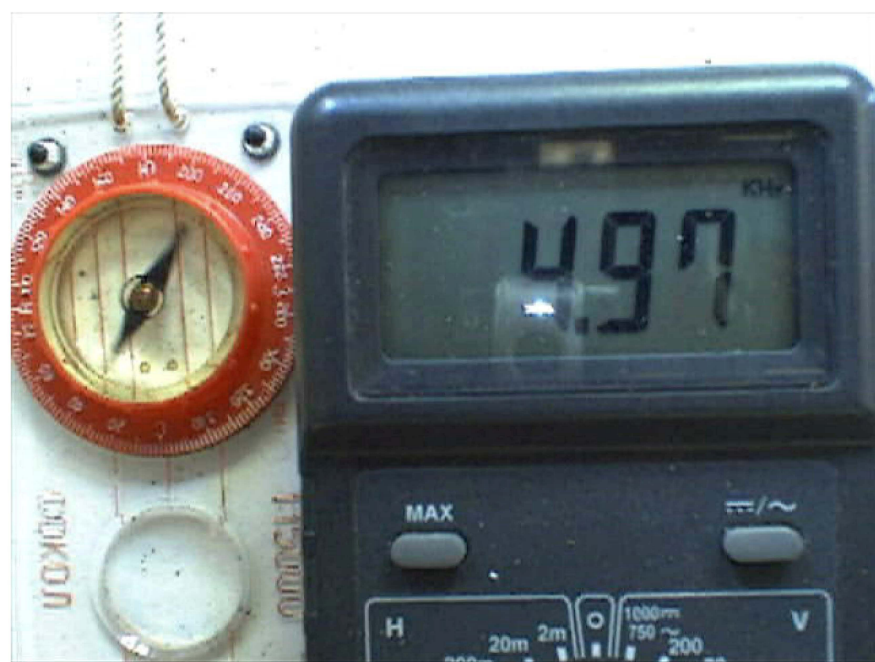


Riga Dynamo experiment



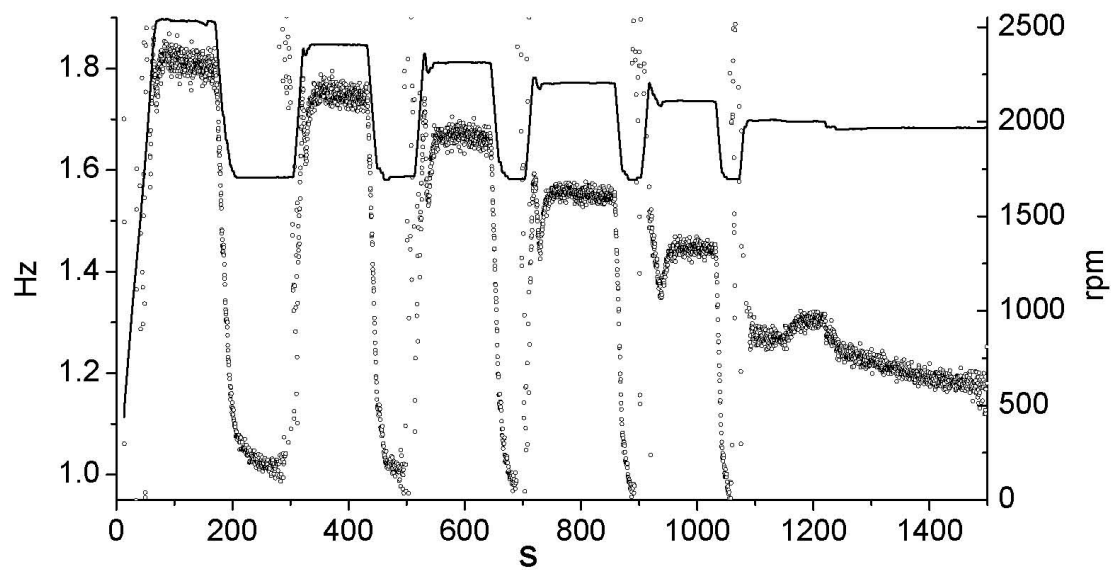
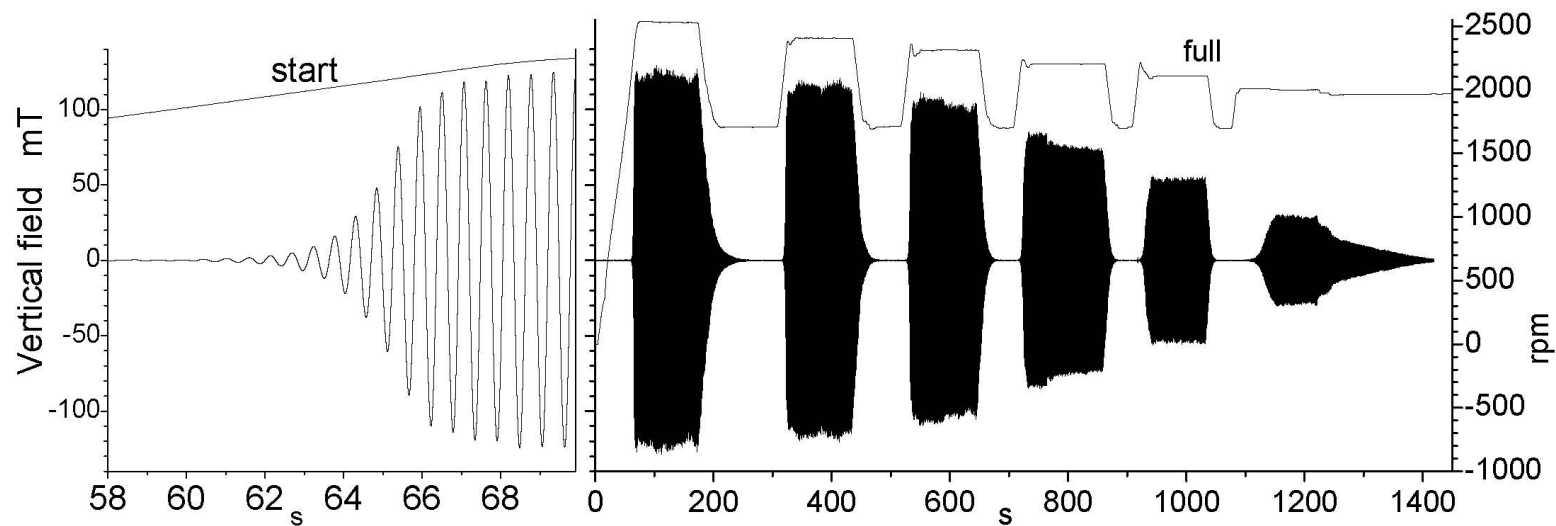


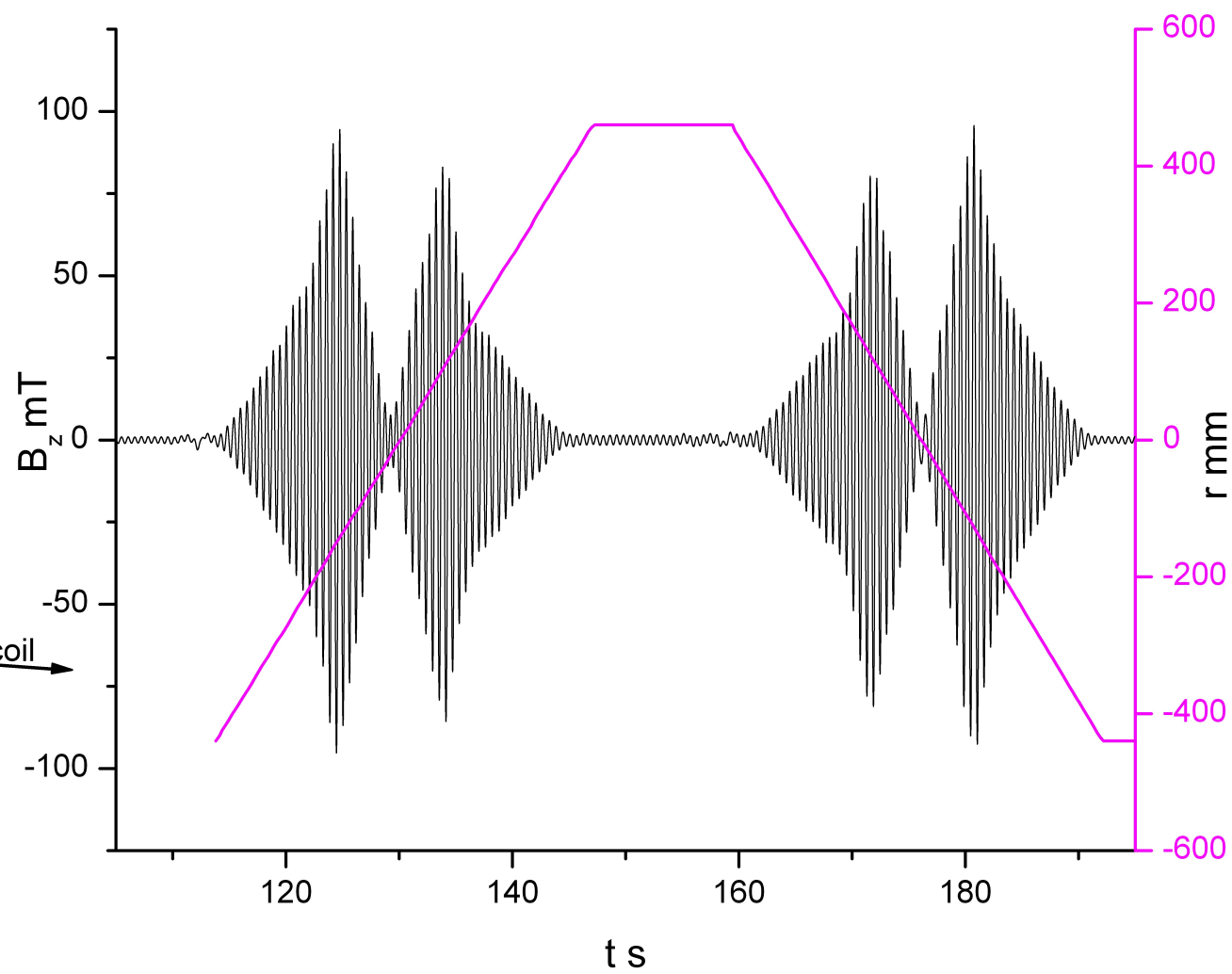
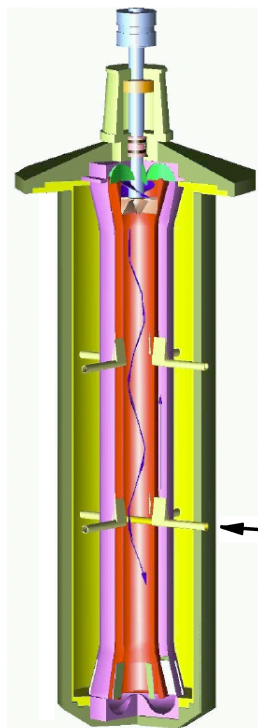


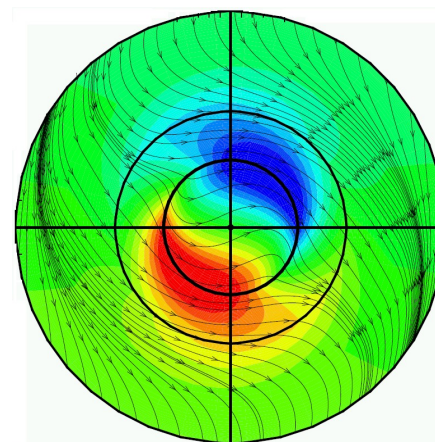
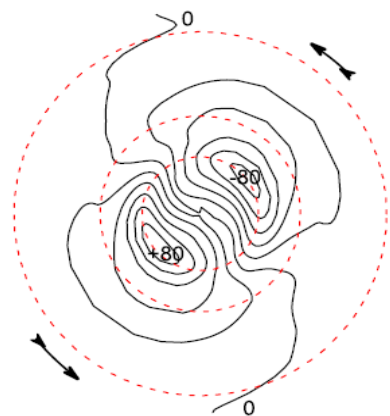
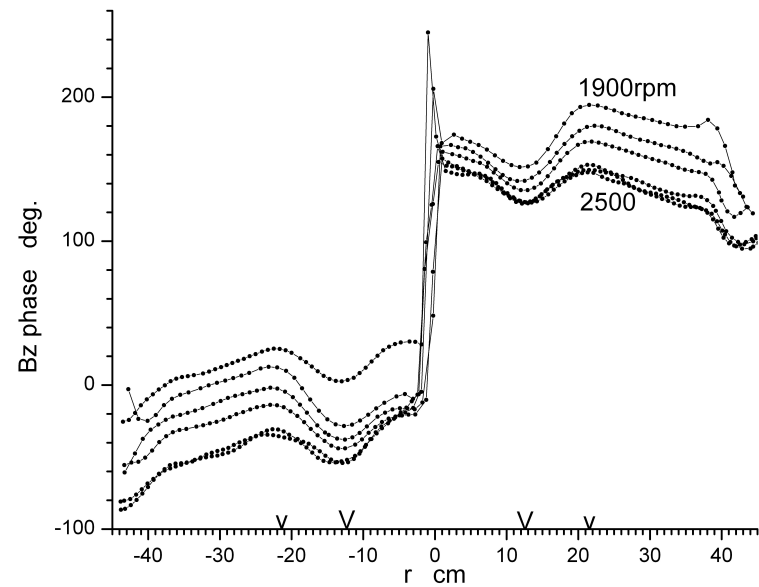
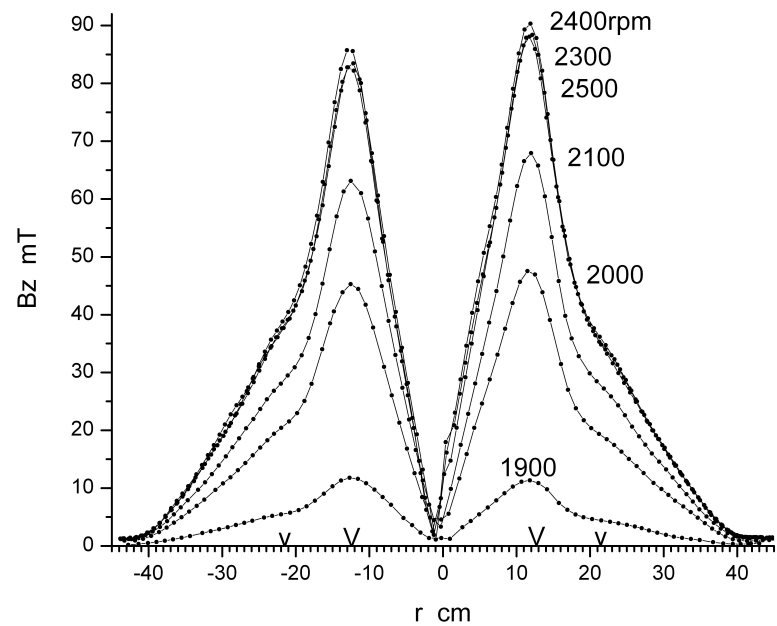
Video during the experiment



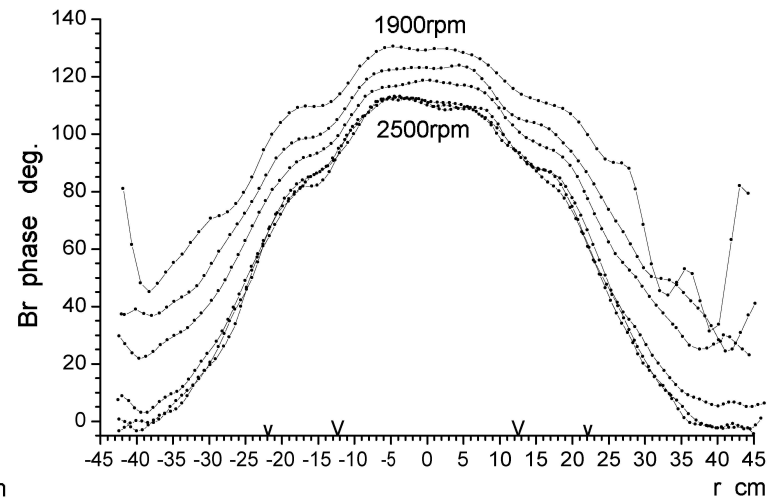
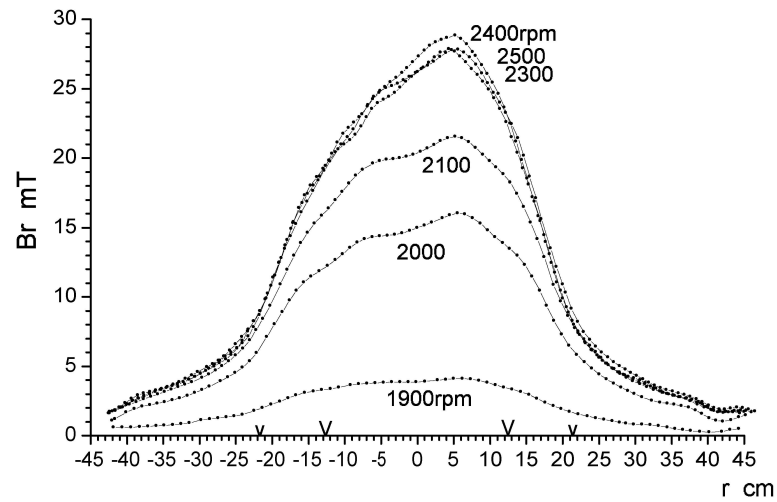
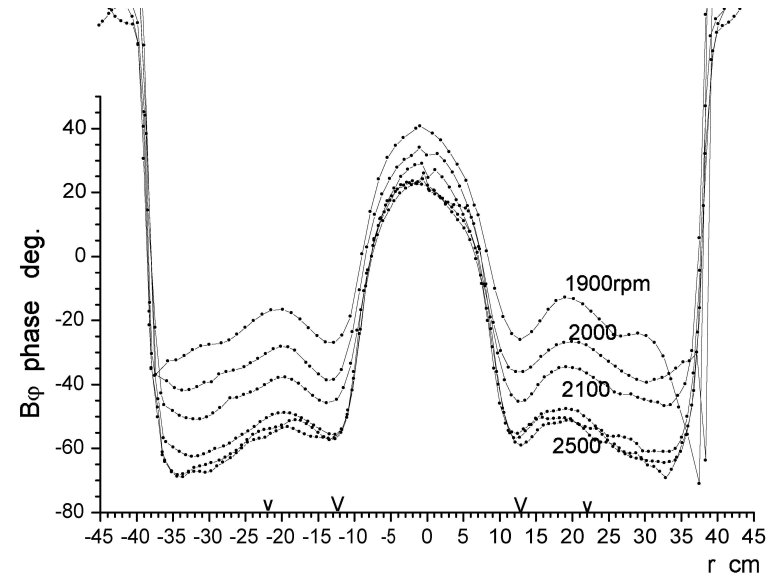
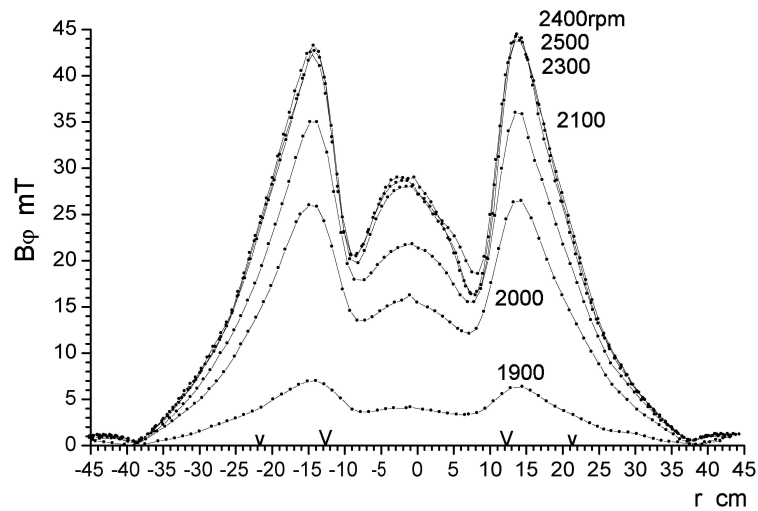








Horizontal field



Energy balance at 2300 rpm:

Unperturbed kinetic energy from
water test:

In direct flow 5000 J/m

In rotation 1300 J/m

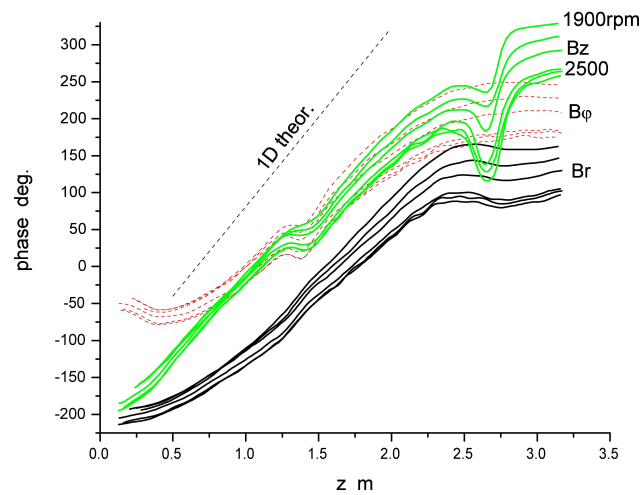
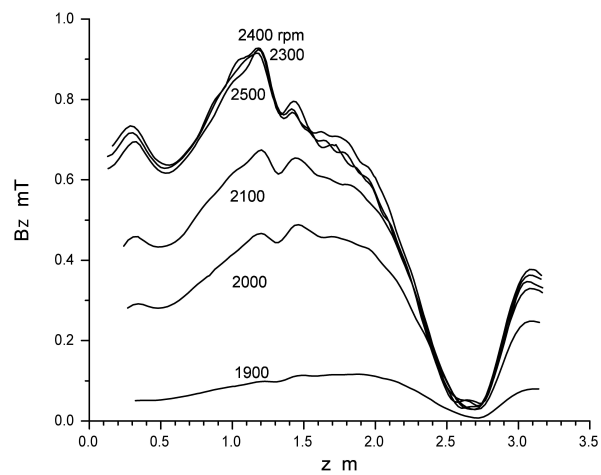
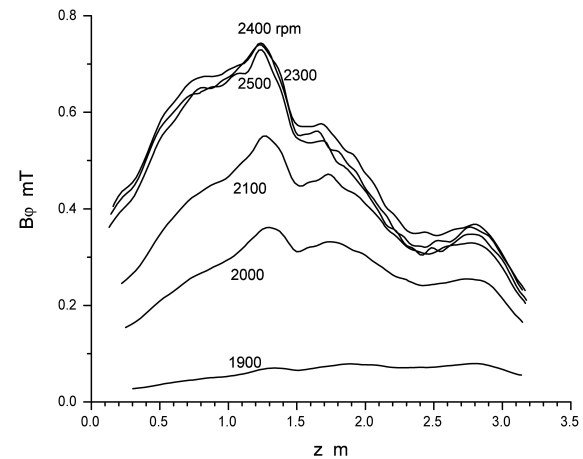
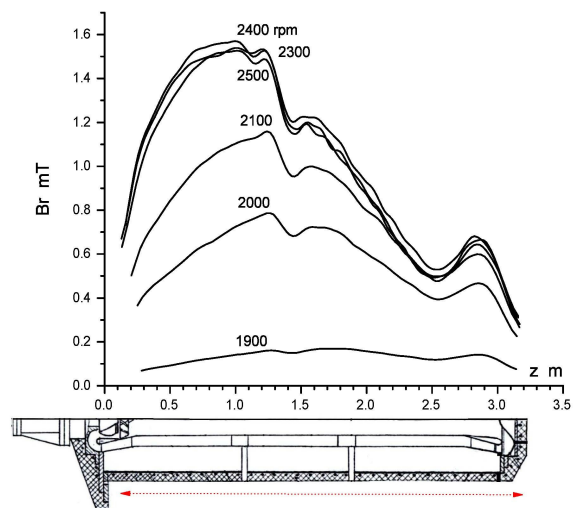
In back flow 2500 J/m

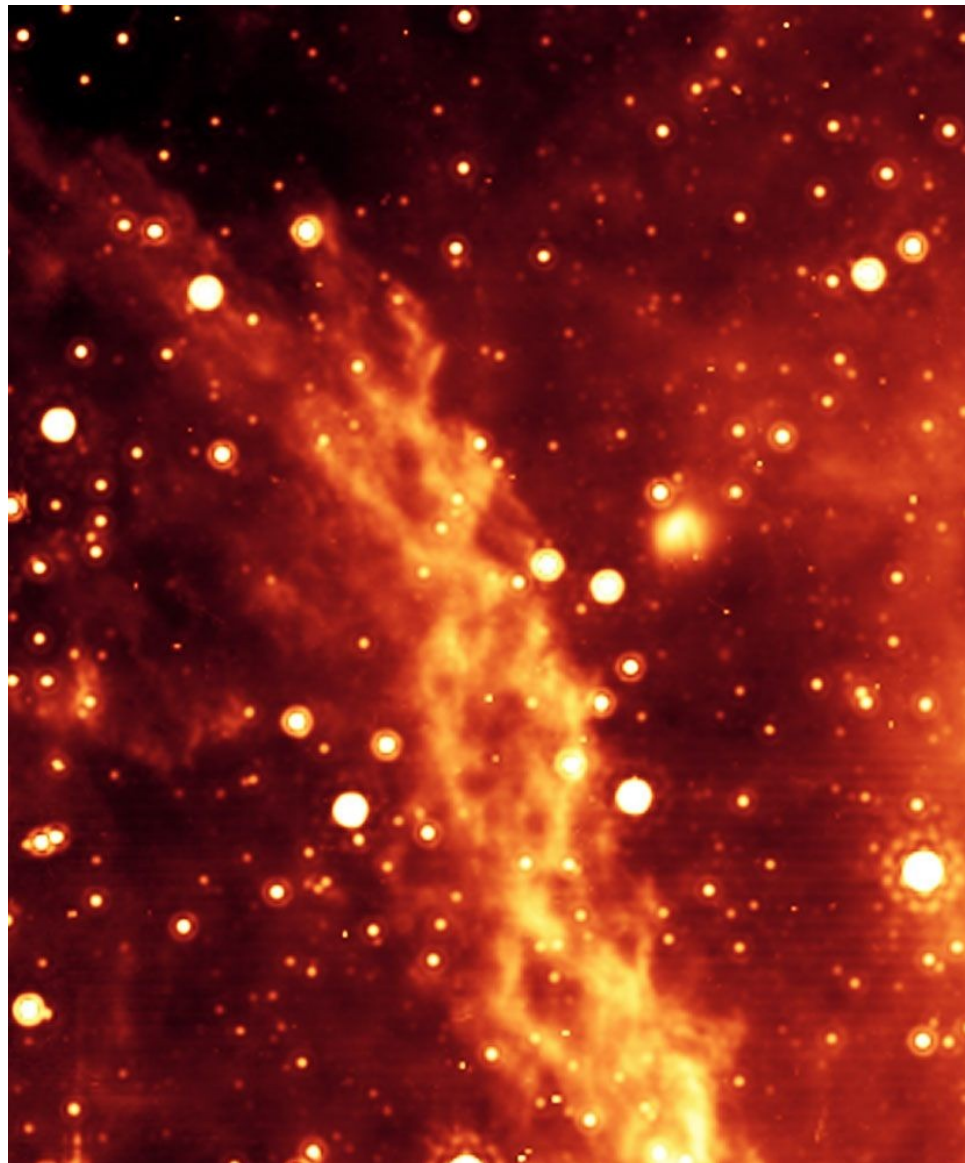
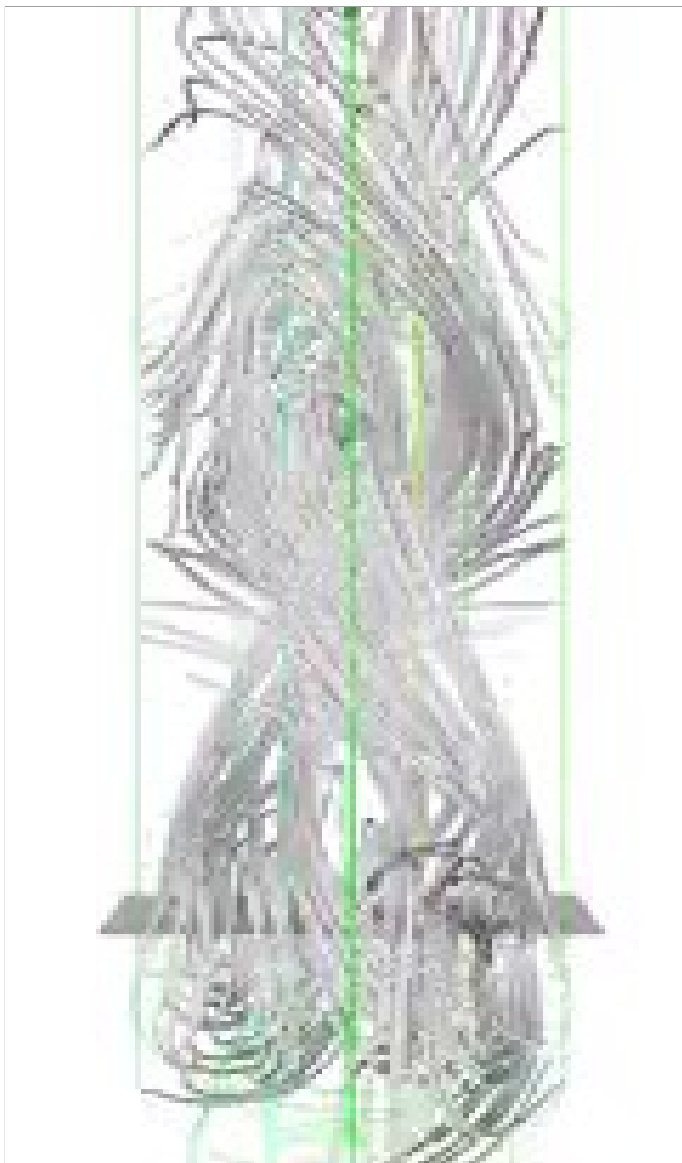
total 8800 J/m

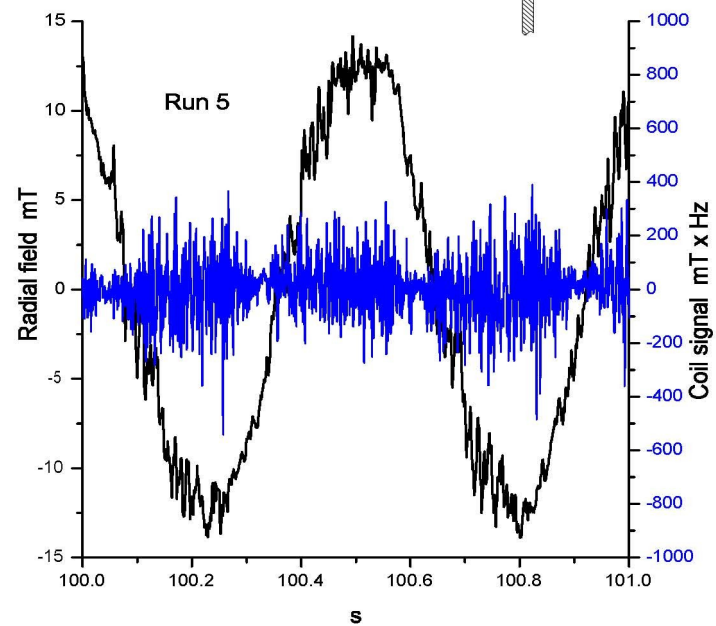
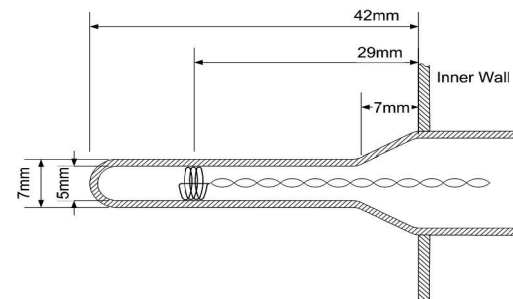
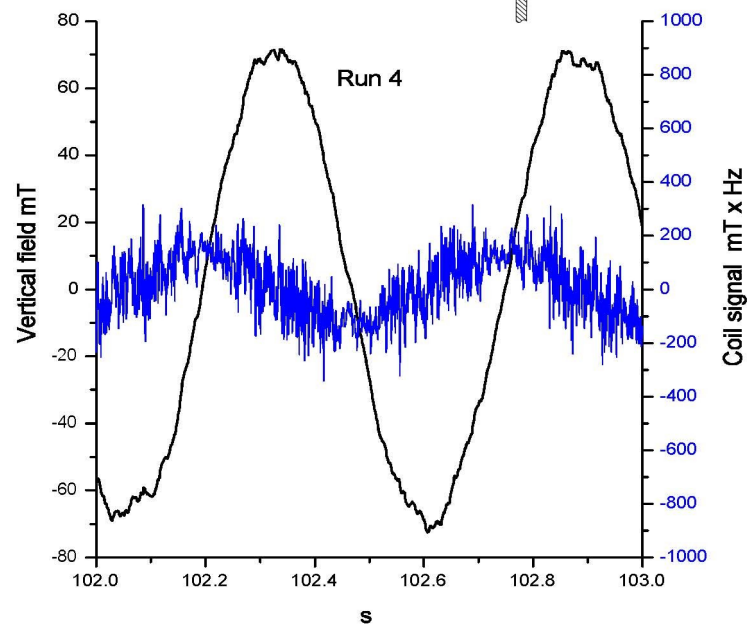
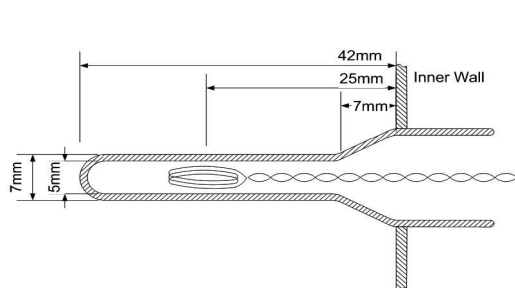
At measured level:

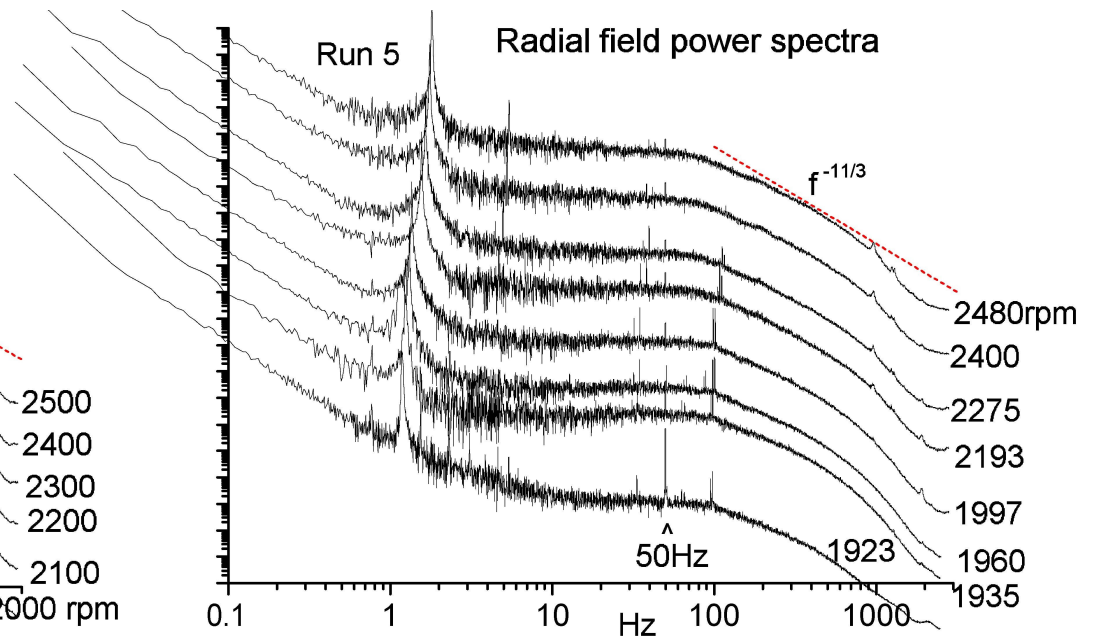
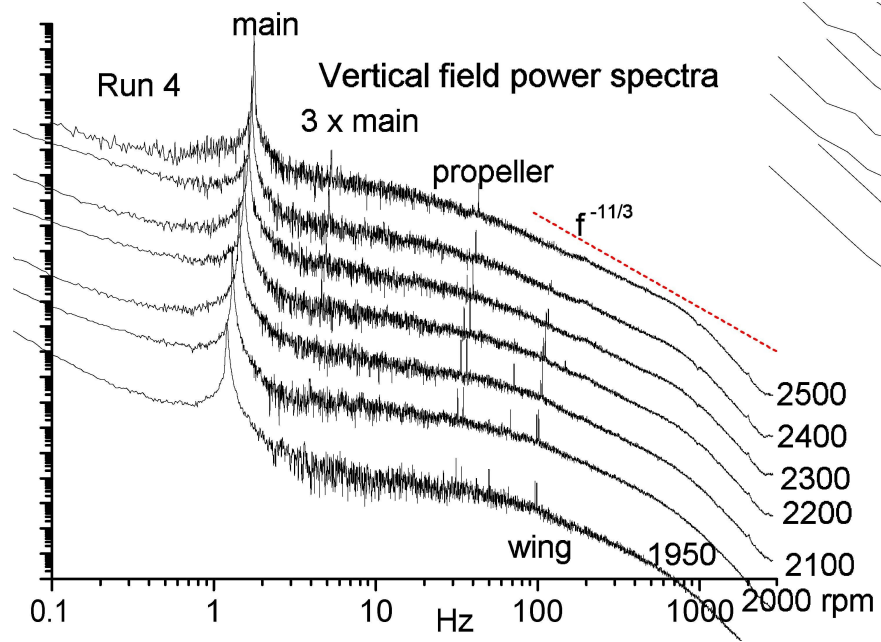
Magnetic energy 175 J/m

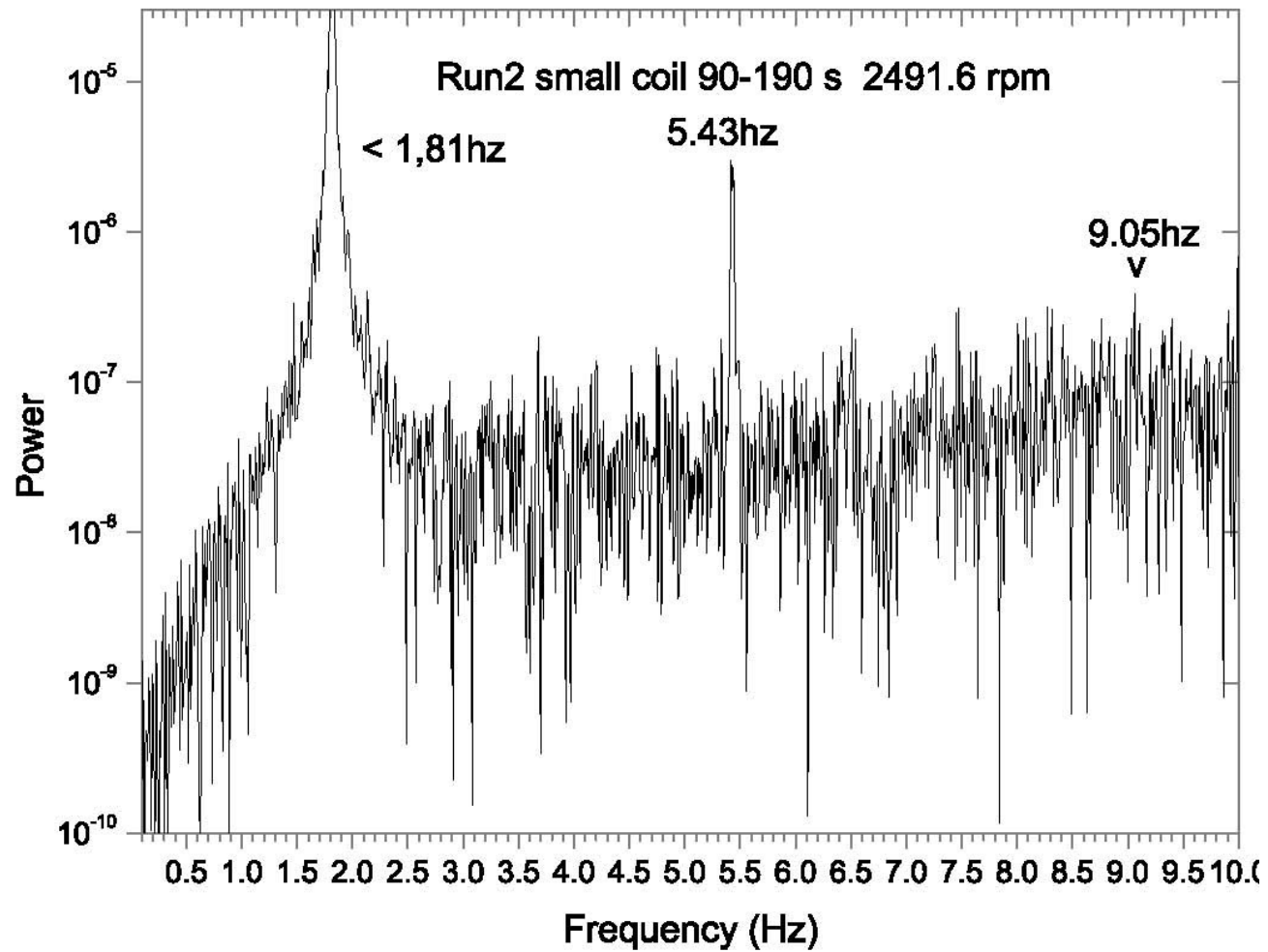
Magnetic/kinetic 2%



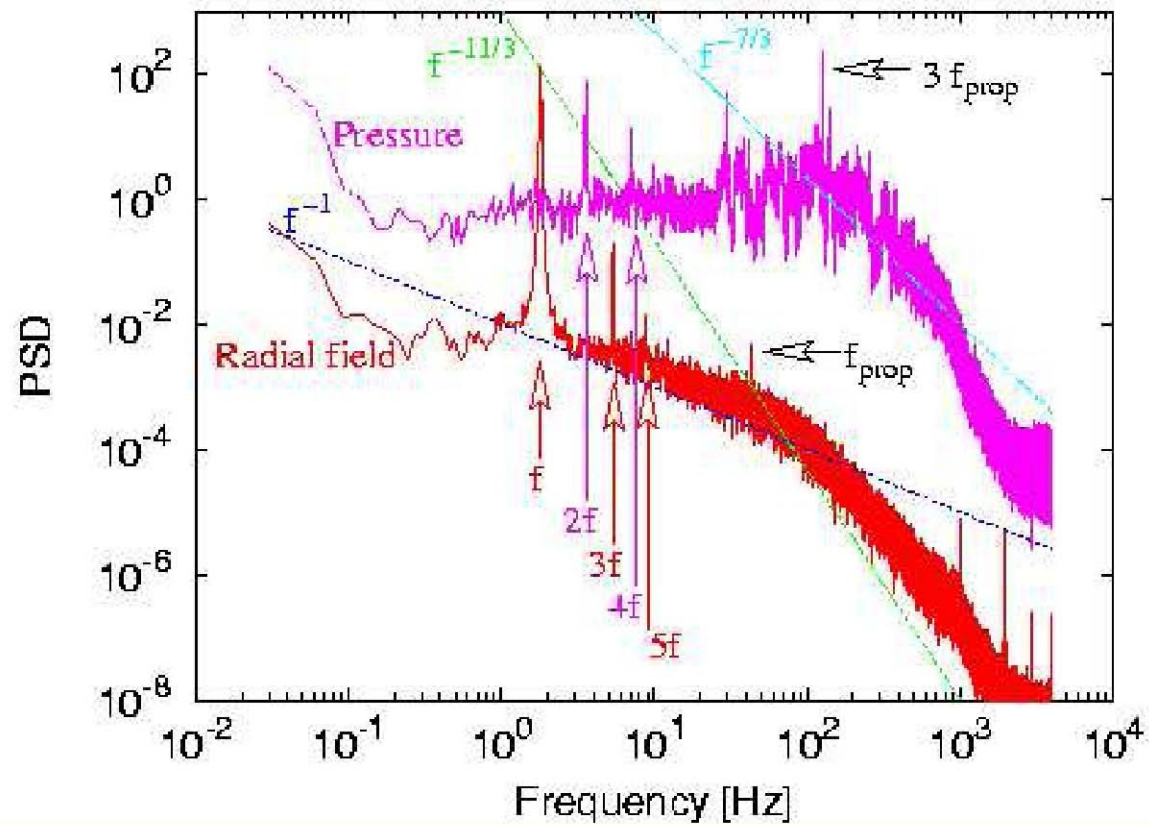


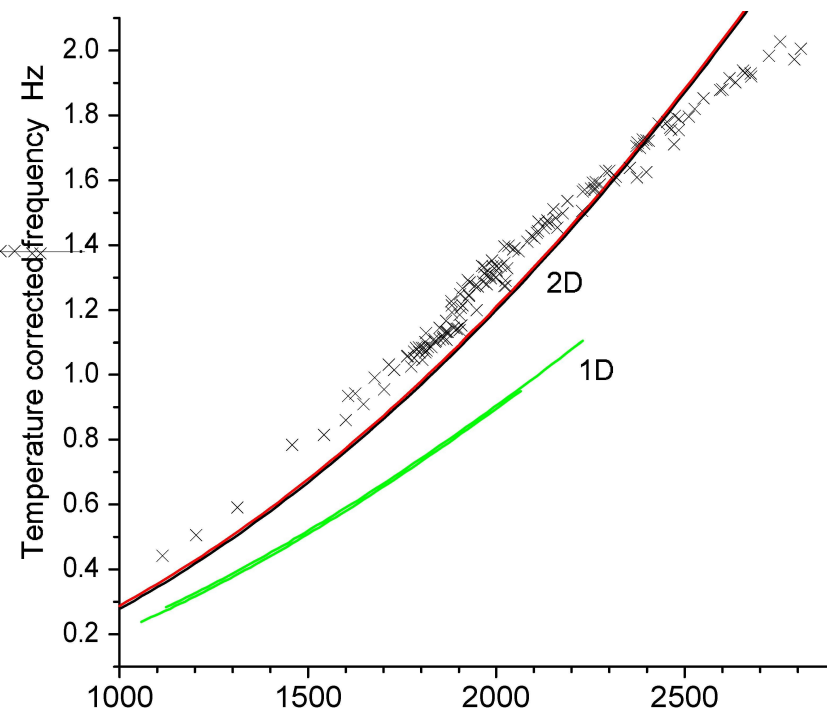
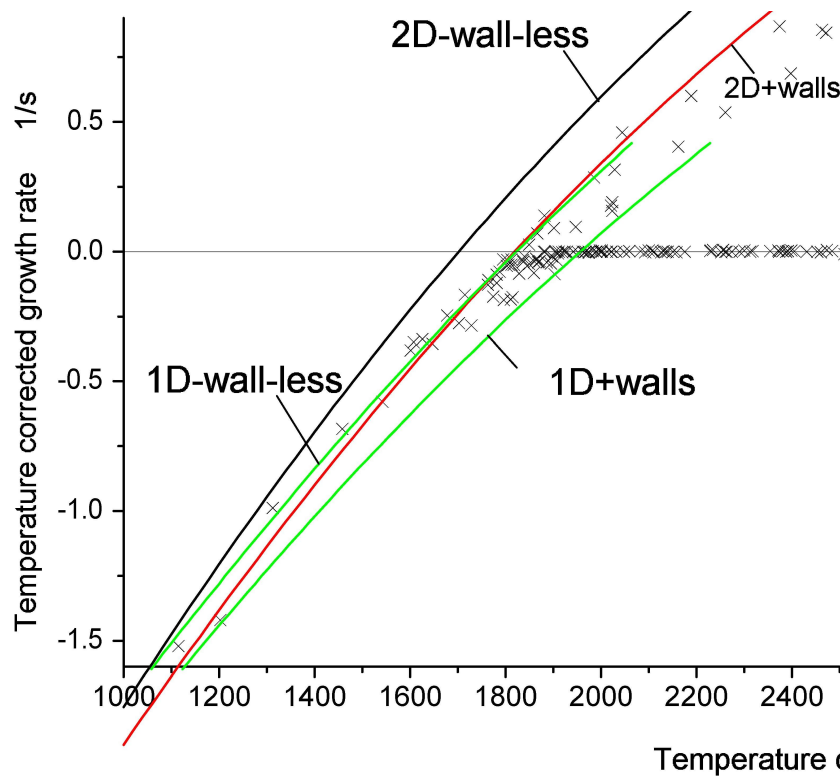






Run 1 - Spectra of radial field (tip) and pressure

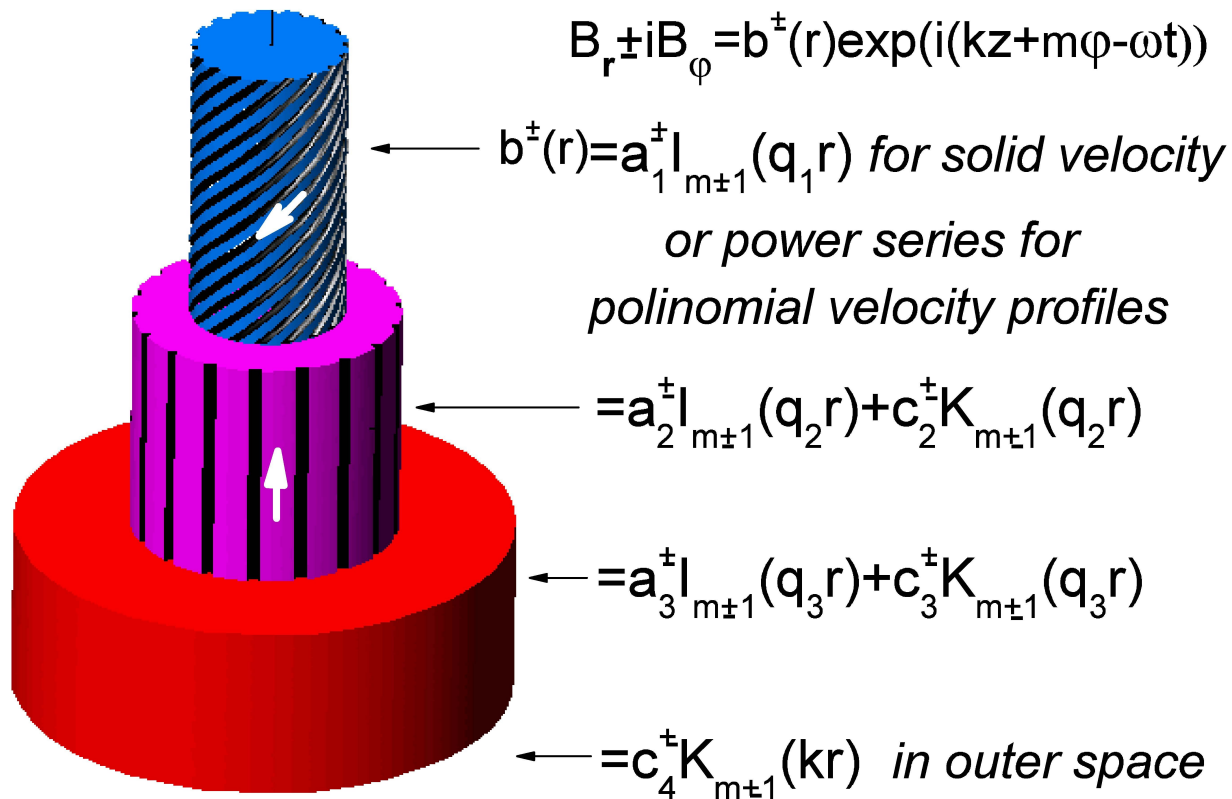






THANK YOU





$$q_n^2 = k^2 + i\mu_0 \sigma \omega_n \quad \omega_n - \text{frequency in co-moving frame}$$

