

Protokoll - report

1. Task 1: Measuring the magnetic field

	depth/mm	B/mT	depth	B/mT	depth	depth
U = 6.0V		349	12	349	26	
I = 2.64A		349	13	:	27	
		349	14	:	28	
		349	15	:	29	
B/mT \ depth		349	16		30	
228.	0	349	17		31	
341.	3	350	18		32	
346	4	350	19	348	33	
348	5	350	20	348	34	
349	6	350	21	342	35	
350	7	350	22	347	36	
350	8	350	23	346	37	
350	9	350	24	345		
350	10	350				
349	11	347				
		349				

Commentary: ~~Outside~~ ~~from~~

Calibration: ~~without~~ Outside, without

We measure the depths at the opening of the magnet. field applied: $B = 0.02 \text{ mT}$
field applied: $B = 0.111 \text{ mT}$

Specifications of coil

$$2x \left\{ \begin{array}{l} N=480 \quad R \approx 1.1 \Omega \\ Z=8 \text{ mH} \quad (\text{max. } 10 \text{ A}) \\ I=3.5 \text{ A} \end{array} \right\} \quad \Lambda$$