





GGSWBS

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Our (students) conference in Tbilisi, GTU.

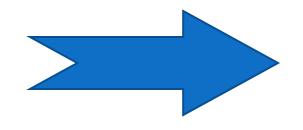
My presentation:

NitroMeter



Summer school in Batumi





Discussing the questions



Summer school for 3 week in FZJ / Why we?

First day in FZJ, we met the Prof. Dr. Hans Stroeher



Prof. Dr. Hans Stroeher and Dr. Andro Kacharava gave us advices and we together planed what we do during our visit in FZJ

Our excursion in FZJ

With Dr. Andro Kacharava

COSY: From old history, present and future...



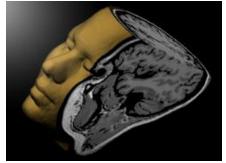




INM: Modern technologies and researches



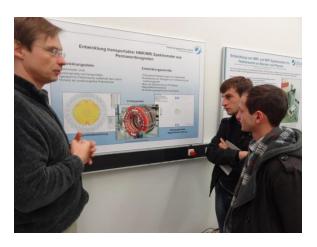




Summer school for 3 week in FZJ / Excursion

ZAT - Central Institute of Technology





Modern technologies which get more ability to create something new

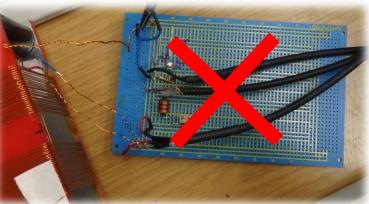




Dr. Helmut Soltner introduce us specific LC resonator And give us task for improving this resonator



LC resonator PCBA



First we draw figure for induction

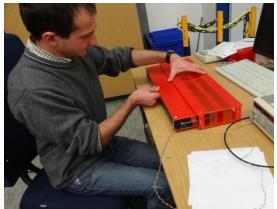


Then we built new induction from plastic

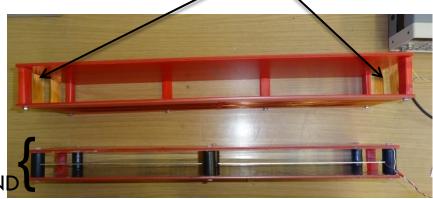


Main coil

What we get?



3 layer of plates GND, Middle, GND



Measurements and calculations



$$C_{\text{main}} = 96 \text{pF}$$

 $L_{\text{main}} = 1.303 \text{mH}$

$L_{main}C_{main}$ resonance

C-inside the coil:

C=96pF

L=2.463mH

 $F_{theory} = 327.504kHz$

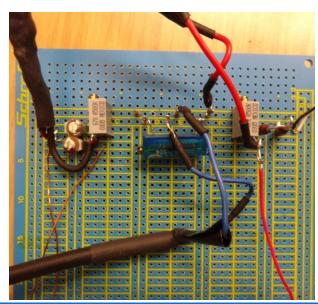
C-outside the coil:

C=96pF

L=2.468mH

 $F_{theory} = 332.2054kHz$

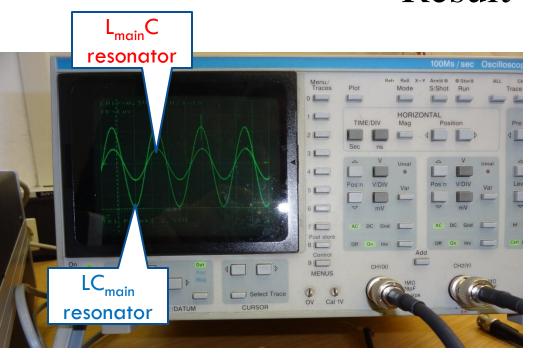
New LC resonator PCBA



$$F_{theory} = 377.5 \text{kHz}$$
 $C_{adjastable} \approx 136.4 \text{pF}$

Summer school for 3 week in FZJ / ZAT / Working

Result







Summer school for 3 week in FZJ / ZAT / End our work

Our trip in Aachen and Brussels











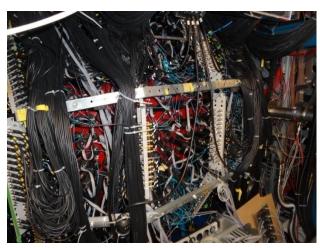


But more interesting and amazing is

FZJ

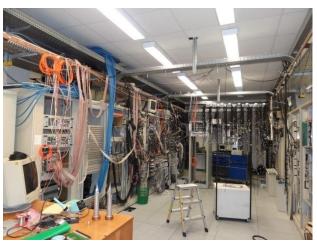












Summer school for 3 week in FZJ / FZJ is better

Thanks:

Prof. Dr. Hans Stroeher, for inviting us in FZJ and gave us chance for getting good experience

Dr. Andro Kacharava, for guiding us and introducing everything in FZJ

Prof. Qetevan Kotetishvili for leading us and giving necessary informations

Dr. Helmut Soltner, Dr. Farida Grinberg and Ezequiel Farrher for giving us opportunity involved in their practical activities



Any question?

THANK YOU

FOR YOUR TIME AND ATTENTION