

# **Polohové studie chování plazmatu na tokamaku GOLEM**

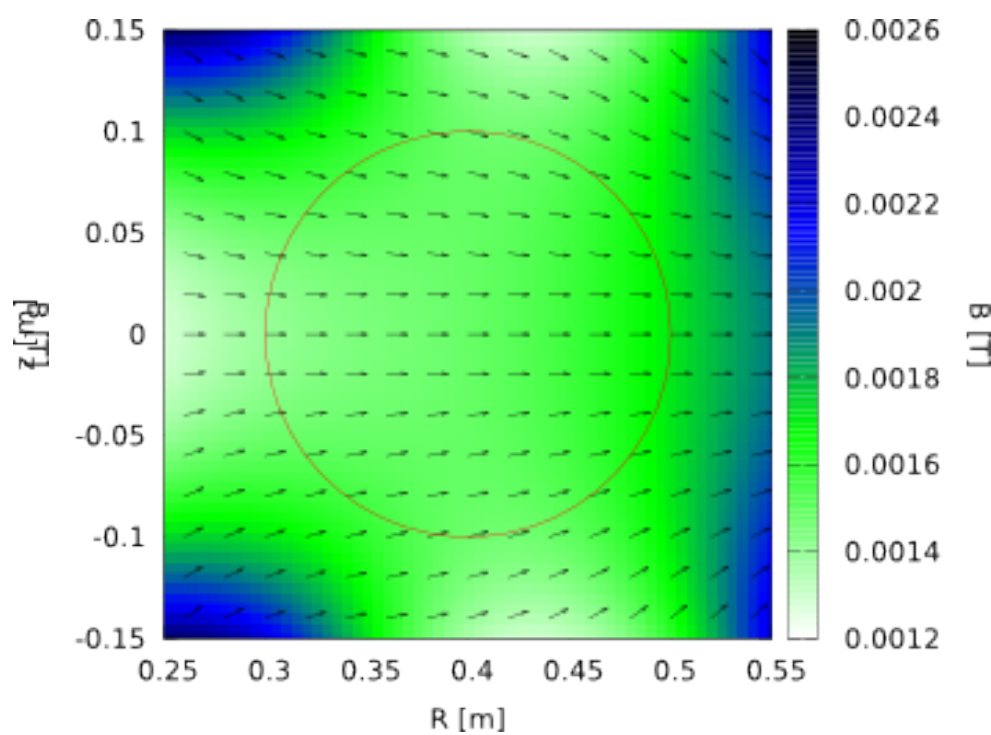
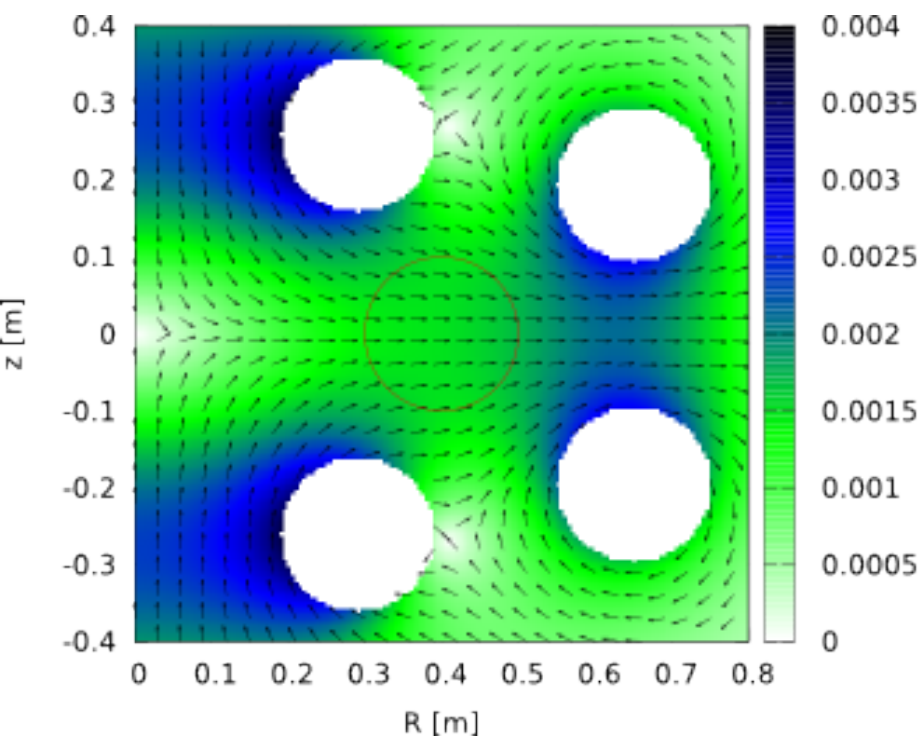
Štěpán Balážik, Jan Priessnitz

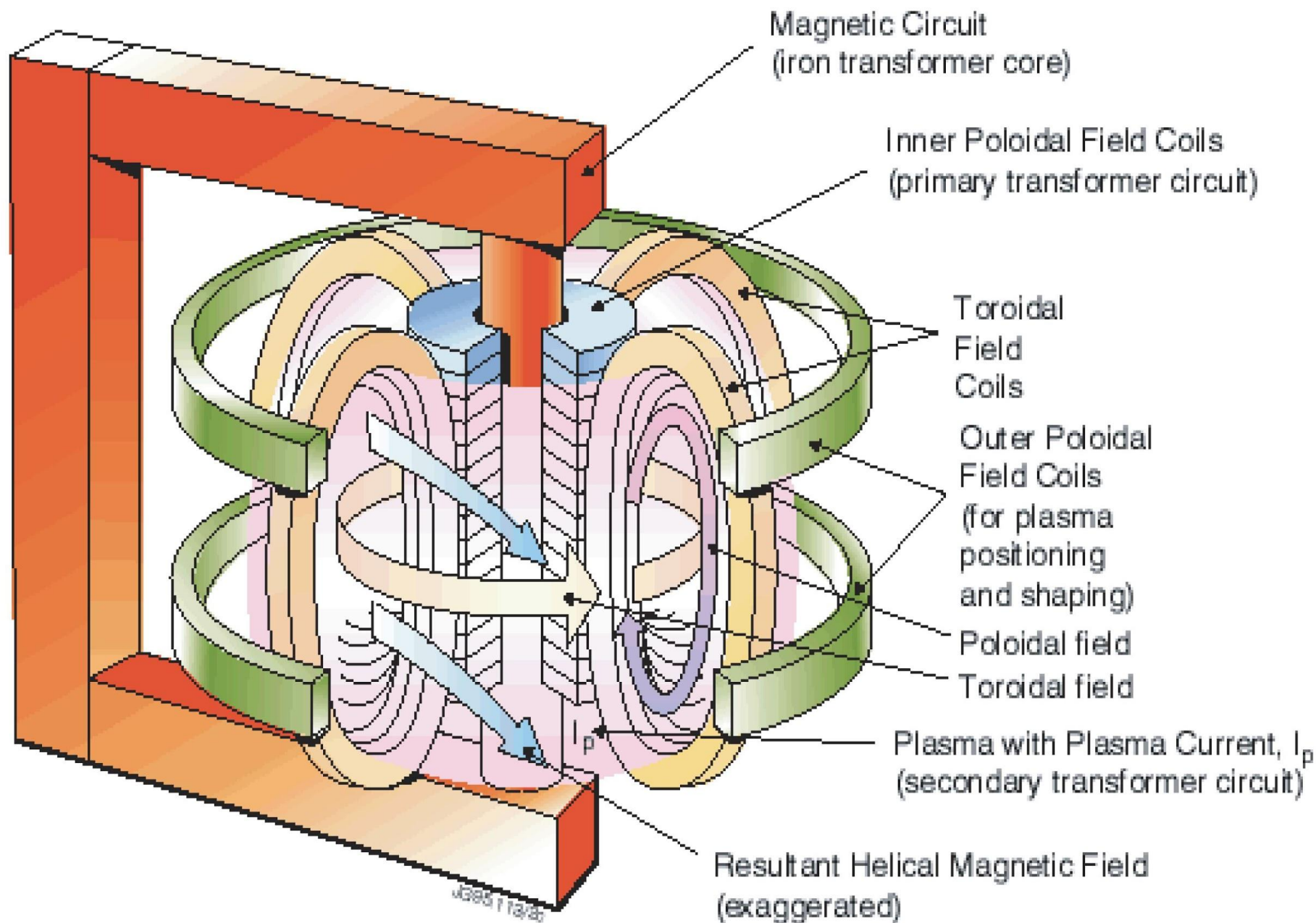
(Gymnázium, Brno, tř. Kpt. Jaroše 14)

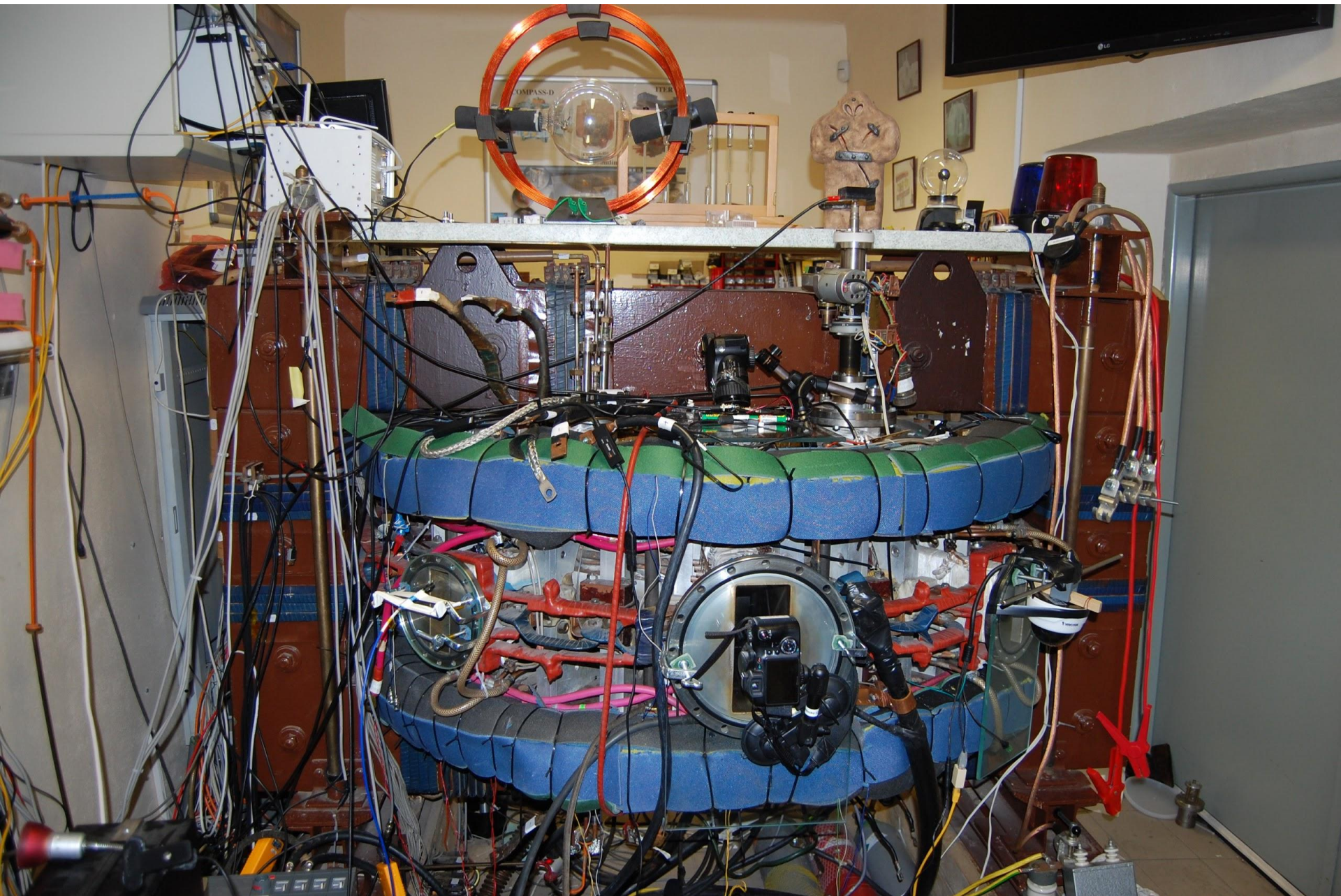
Adam Vyjídák

(Gymnázium, Olomouc, Čajkovského 9)

Dokázat možnost korigovat polohu plazmatu pomocí polodiálních cívek a tím ovládat jeho životnost.







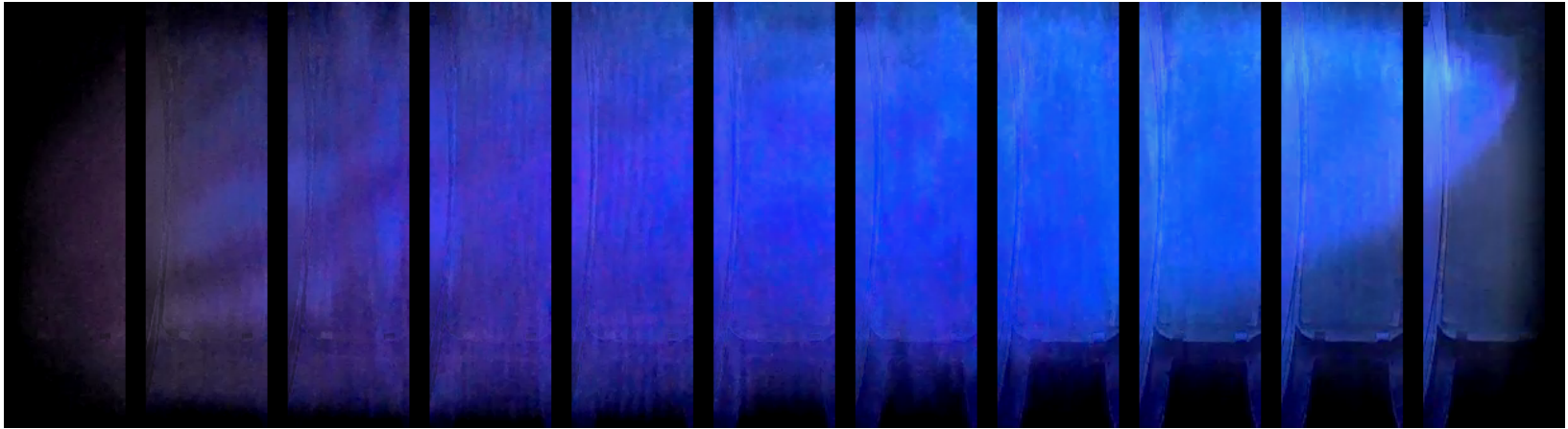
# Teorie

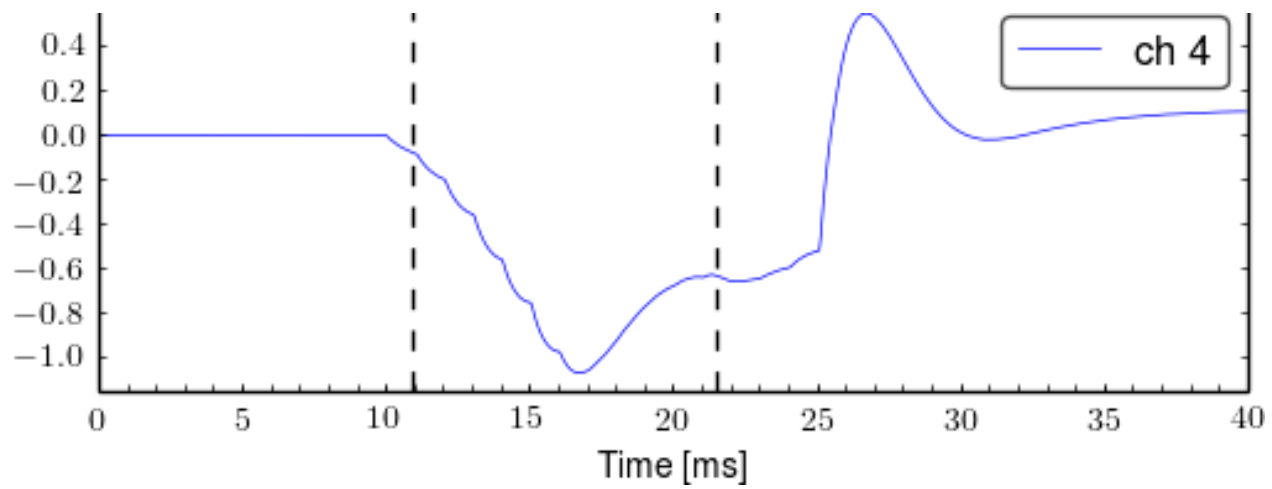
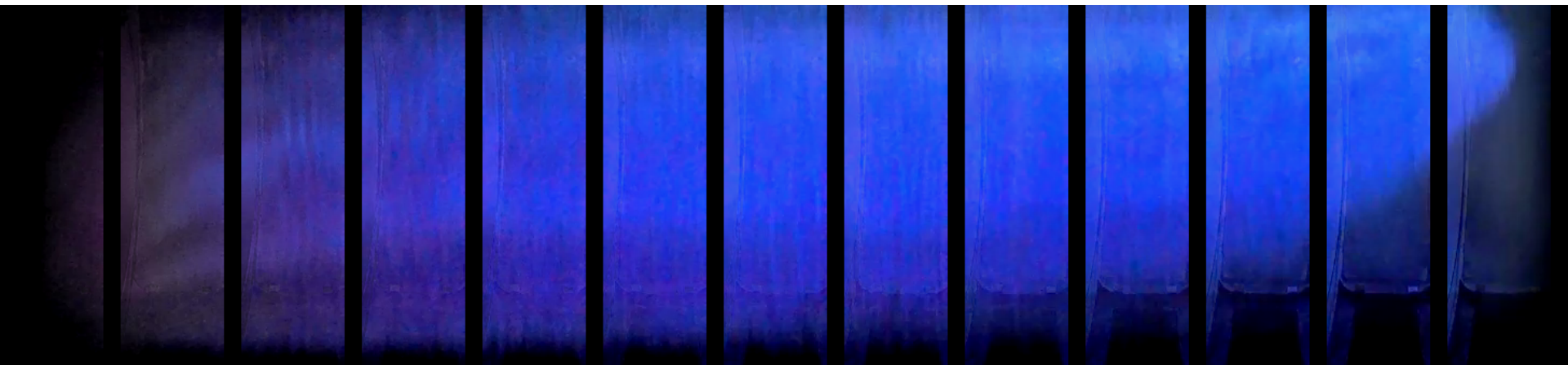
$$U_{ind} = -\frac{\Delta\Phi}{\Delta t}$$

$$\Phi_n = \sum_{i=1}^n -U_{ind} \cdot \Delta t$$

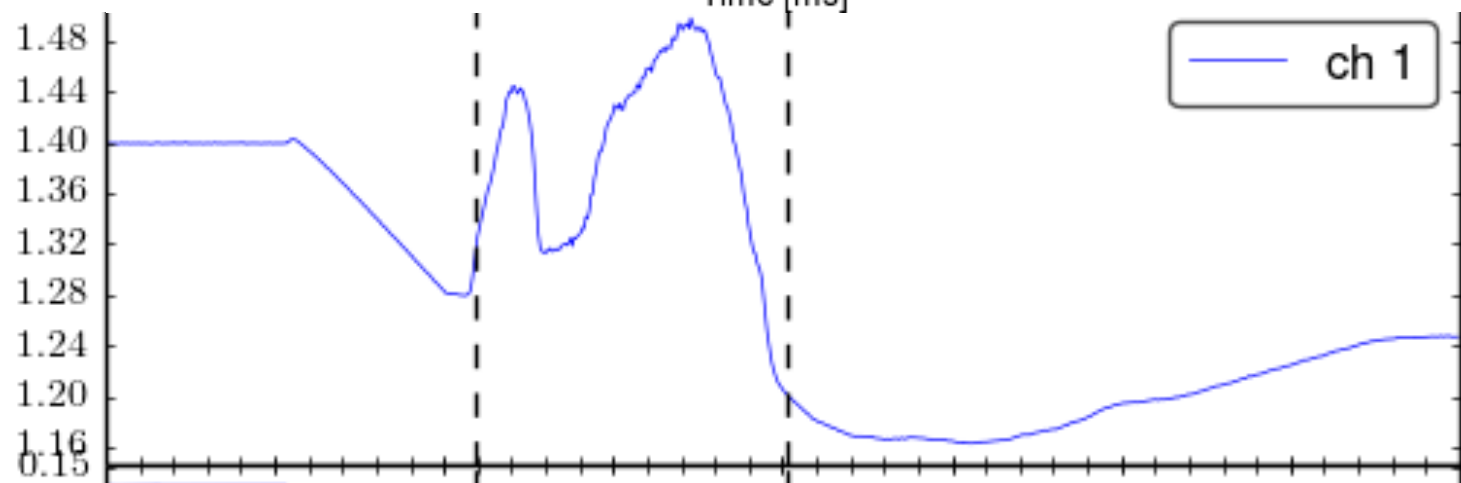
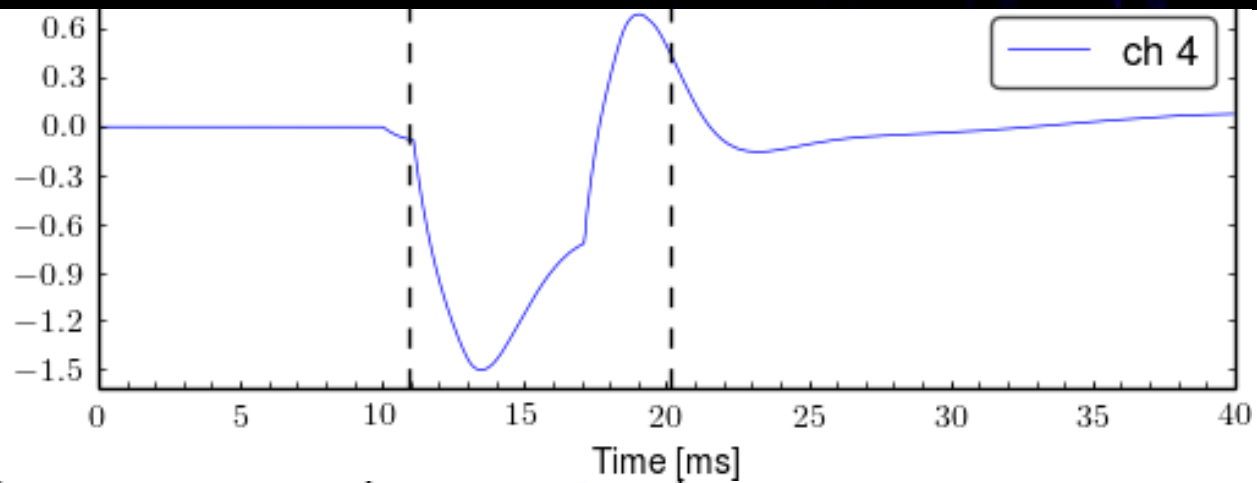
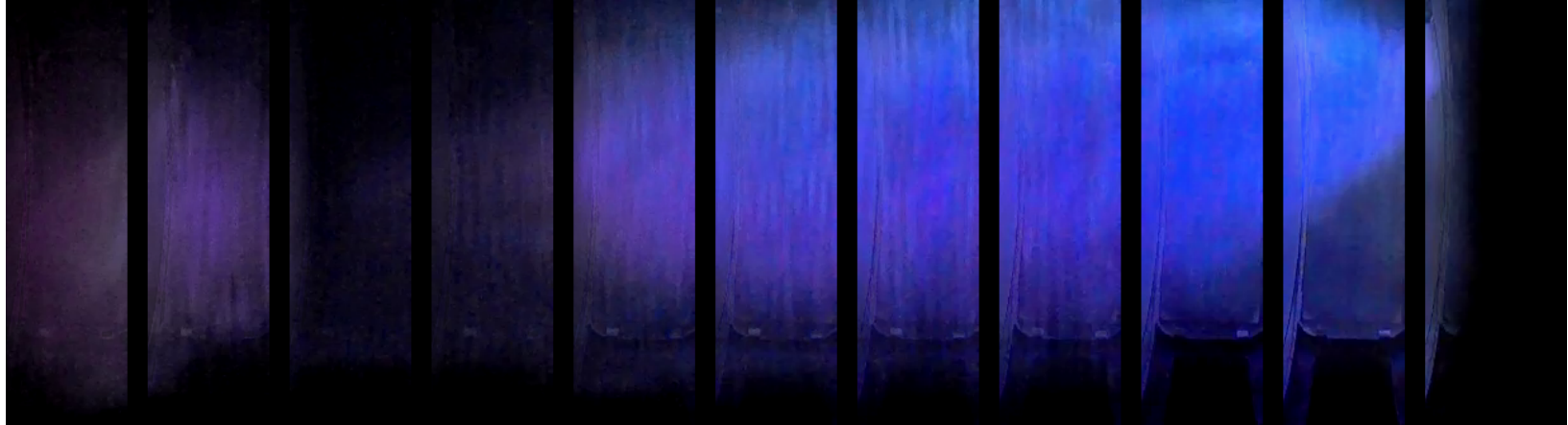
$$B_n = \frac{\Delta t}{S} \cdot \sum_{i=0}^n \Delta U_{ind}$$

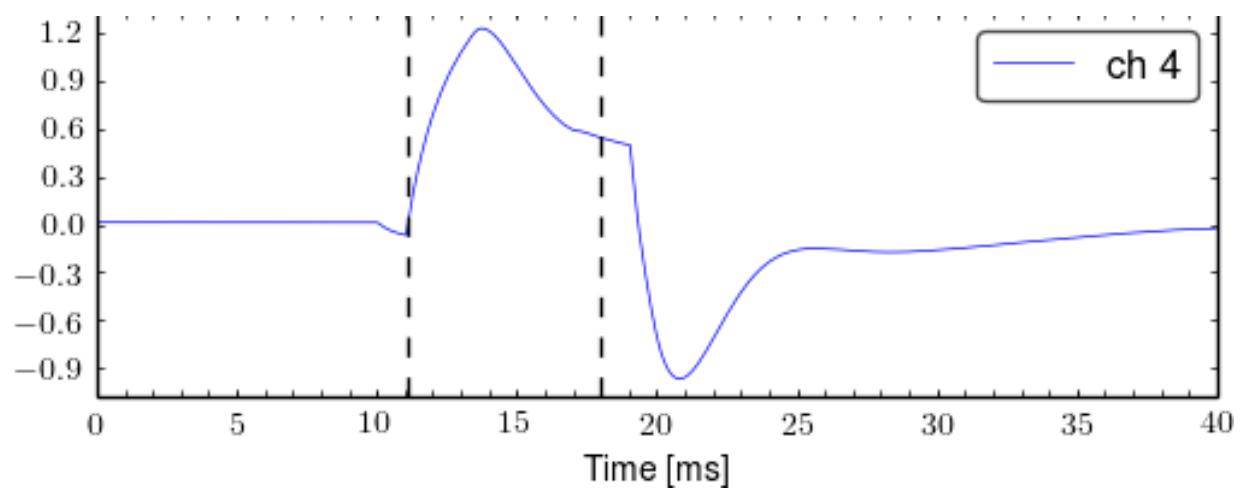
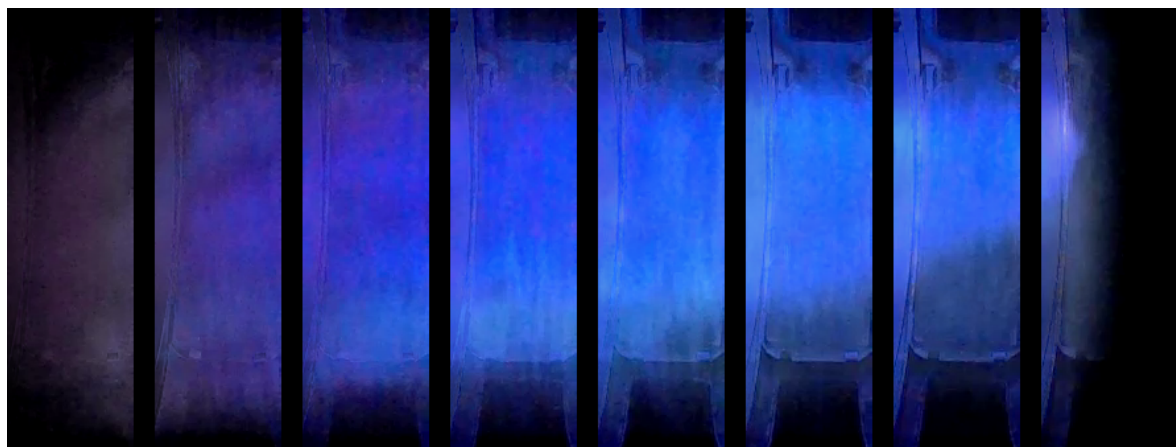
$$a = d \cdot \frac{B_1 - B_2}{B_1 + B_2}$$











# Reference

[http://2008.iccas.org/program/digest\\_view.asp?  
S\\_CODE=FP01](http://2008.iccas.org/program/digest_view.asp?S_CODE=FP01)

[http://golem.fjfi.cvut.cz:  
5001/Tokamak/BasicCharacteristics/AAAindex](http://golem.fjfi.cvut.cz:5001/Tokamak/BasicCharacteristics/AAAindex)