

Tomografie, open source, praktika...

Jakub Svoboda

Obsah

- ECWC
- open source tomotok
- JT60-SA
- fyzikální praktika

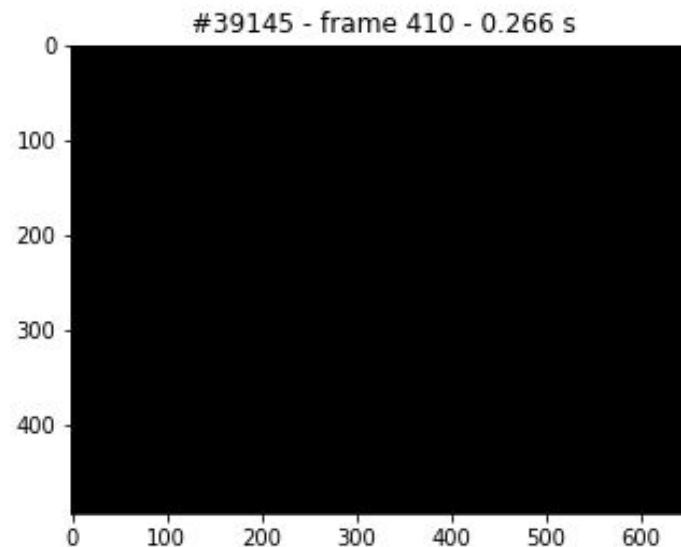
ECWC

(electron cyclotron wall conditioning, RT17)

supravodivá zařízení nemohou používat doutnavý výboj

specifické parametry - omezené diagnostiky

využití rychlých kamer



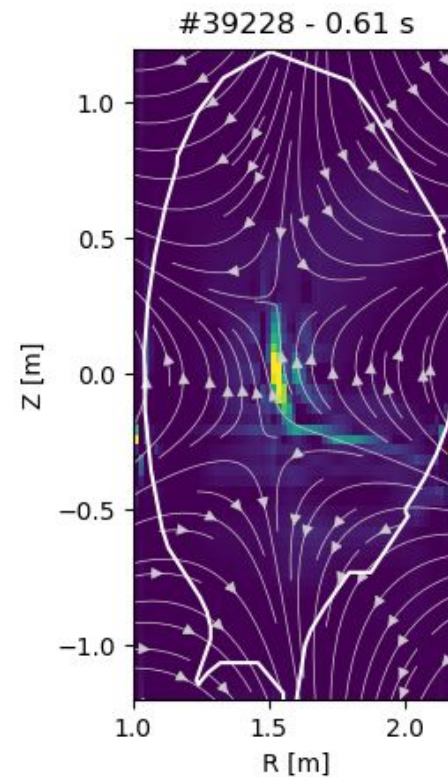
Tomografie ECWC

předpoklad toroidální symetrie

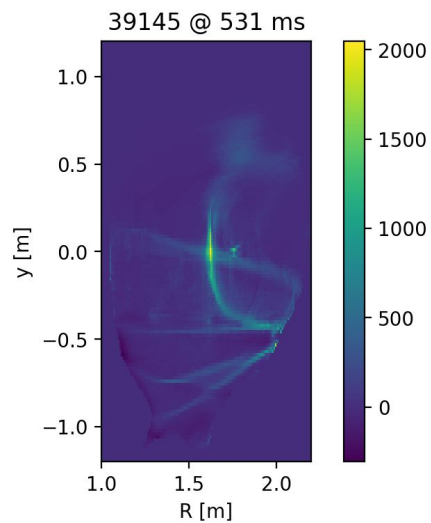
zanedbání odrazů

dva typy algoritmů - izotropické MFR a BOB

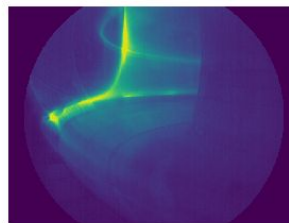
kampaně na TCV a AUG



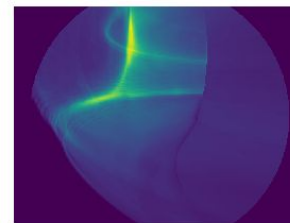
Výsledky AUG



Camera



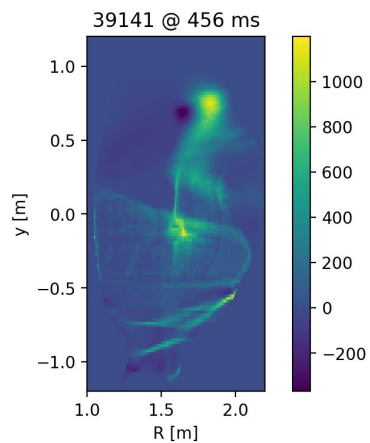
Retrofit



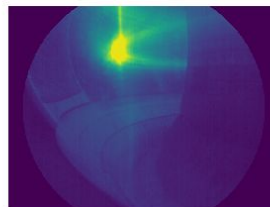
Difference



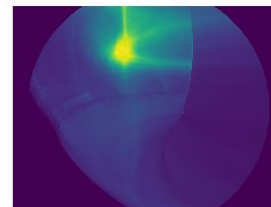
Výsledky AUG



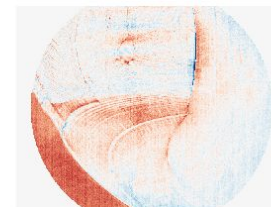
Camera



Retrofit

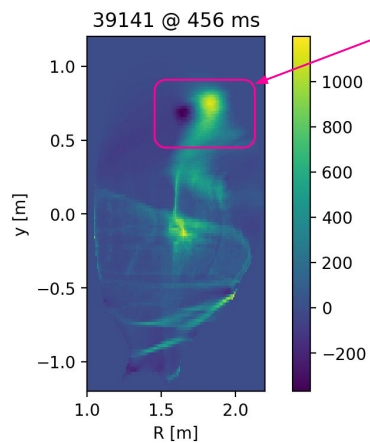


Difference

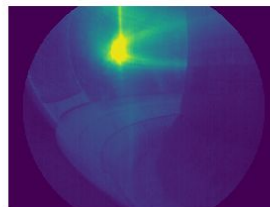


Výsledky AUG

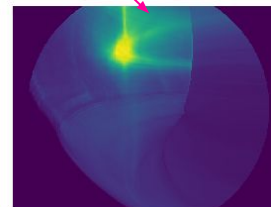
mimo pohled kamery (numerická nestabilita?)



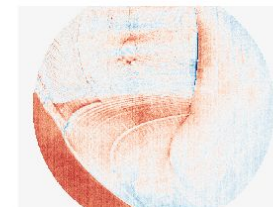
Camera



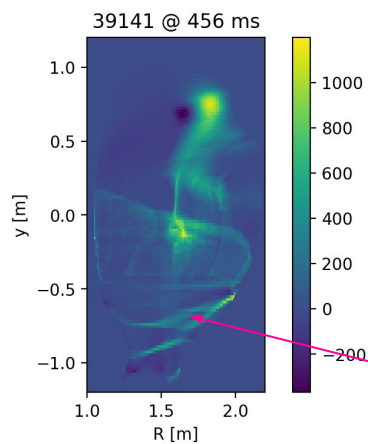
Retrofit



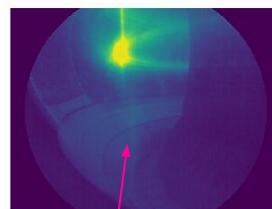
Difference



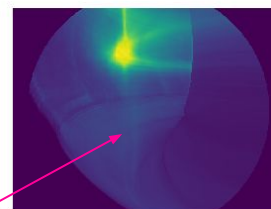
Výsledky AUG



Camera



Retrofit

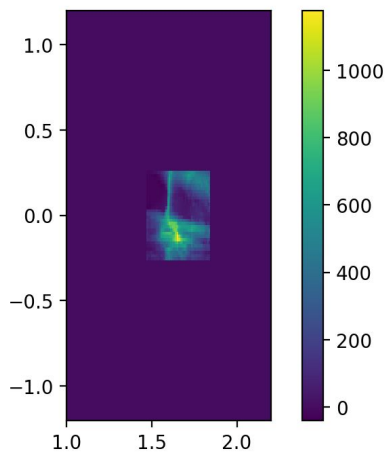


Difference

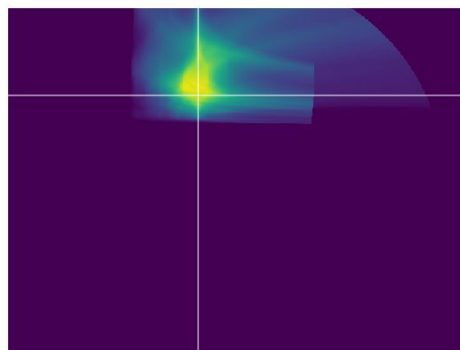


odrazy

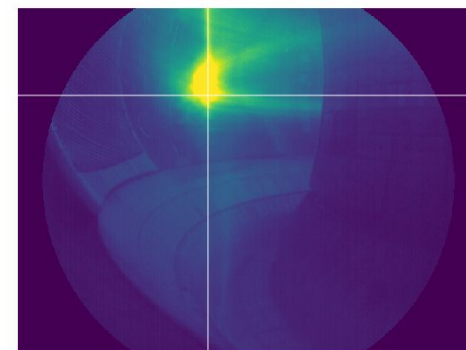
Výsledky AUG



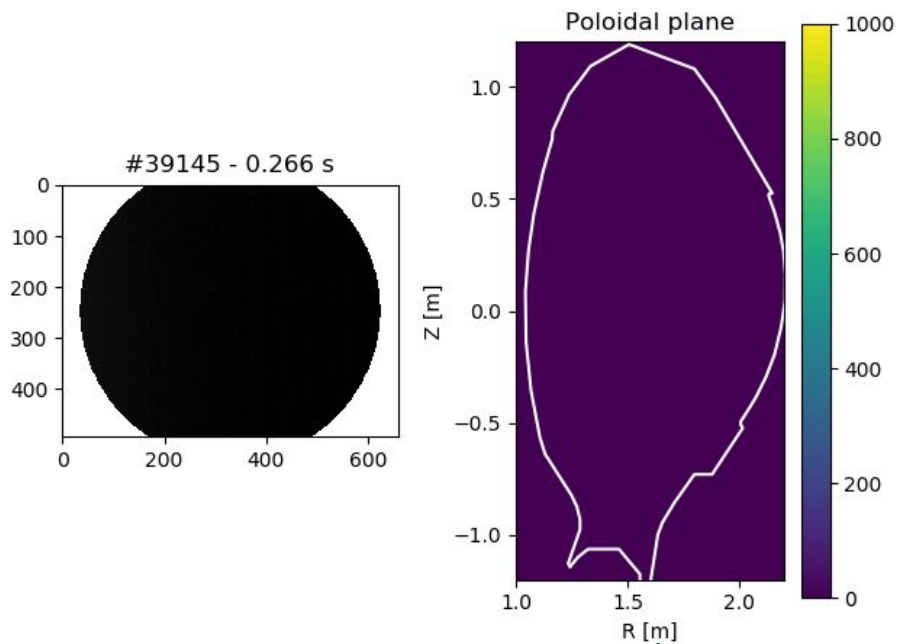
Selective retrofit



Signal



Výsledky AUG



[J. Cavalier, nepublikováno]

vývoj tomografického balíčku tomotok





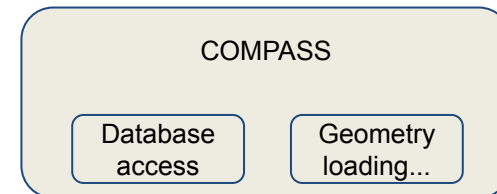
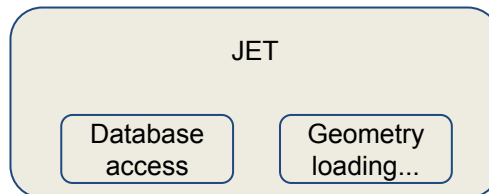
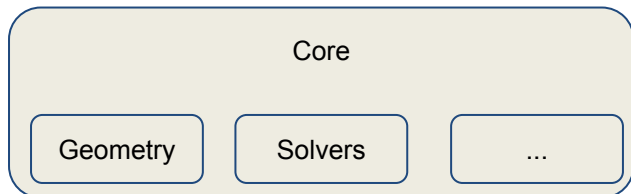
Přechod na open source tomotok

úprava architektury

vytvoření dokumentace

licence - EUPL

referenční článek



Tomotok

<https://github.com/Tomotok>

<https://tomotok.github.io/documentation/>

<https://pypi.org/project/tomotok/>

JT60-SA

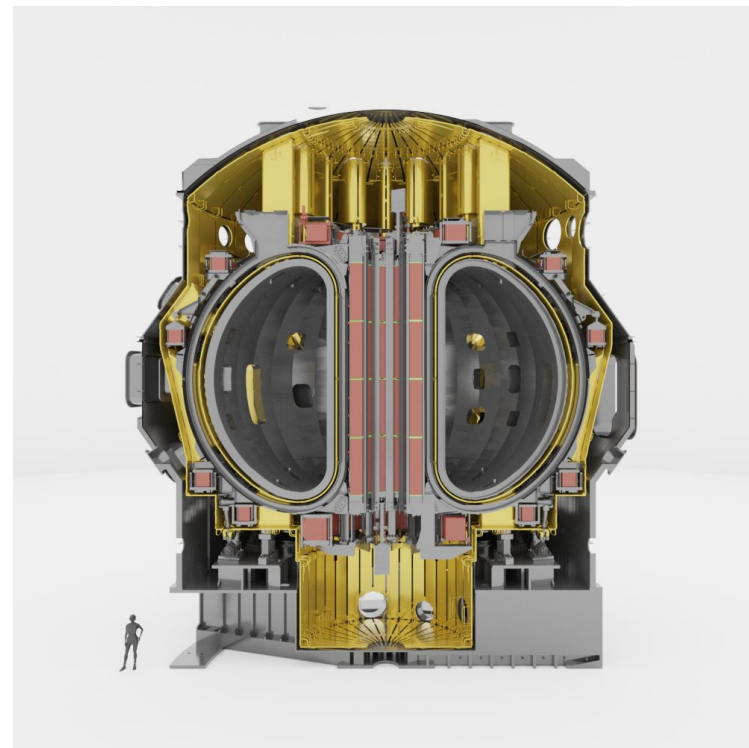
JT60-SA

nový tokamak na místě JT60-U

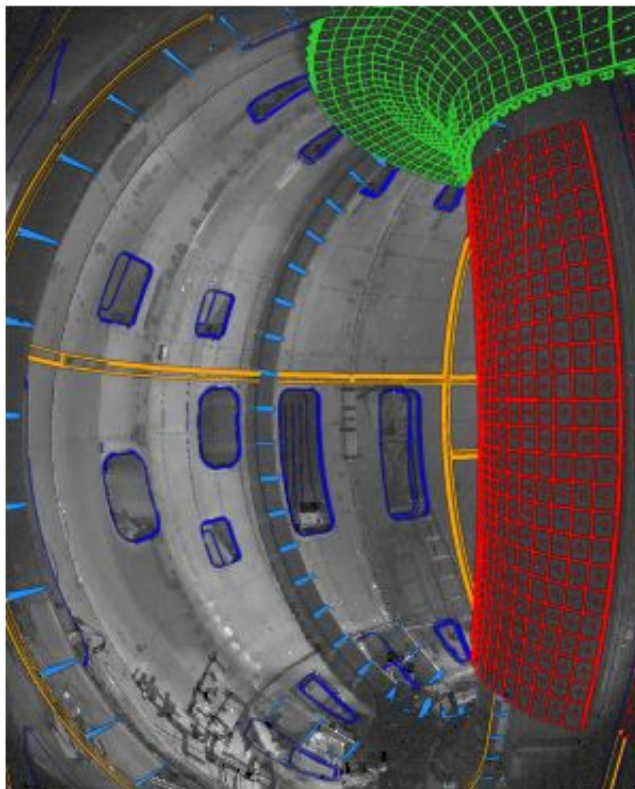
supravodivý

spolupráce EU a JPN

start (druhý) léto 2022

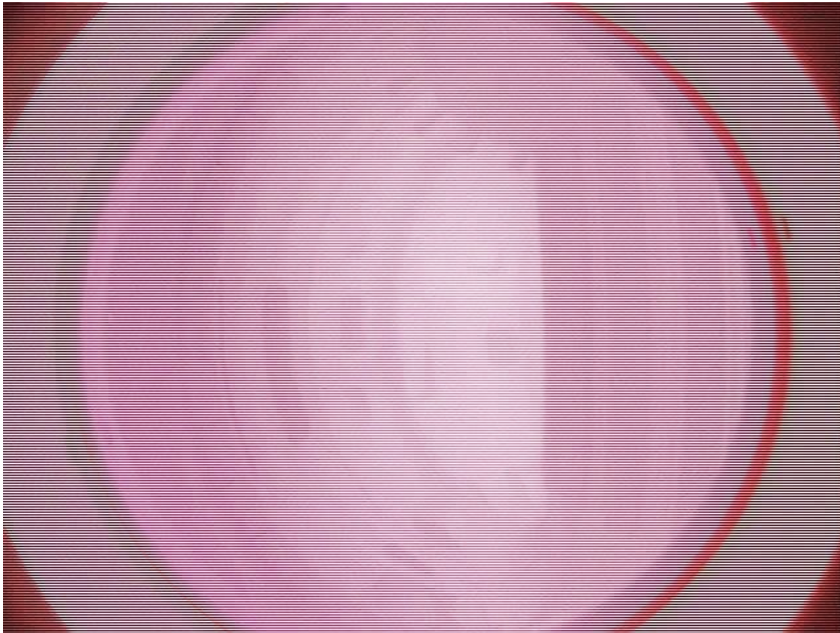


https://www.it60sa.org/it60sa_tmon/



[J. Cavalier, nepublikováno]

Katastrofy



Praktika

02PRA12

jupyter notebooky s úvodem do pythonu pro základní zpracování dat

garantování úlohy v letním semestru RTG

pozdvolné změny

- dostat materiály na školní git server
- prosazen odkaz na typografická pravidla na Aldebaranu
- odkaz na materiály v pythonu