

# Activities at IMID (from approx. 2024)

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ÚSTAV  
KONSTRUOVÁNÍ

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$$\left(\sqrt{-\text{shit}}\right)^2$$

SHIT JUST GOT REAL



# INTRODUCTION



## Technical diagnostics

- Acoustics
- Non destructive testing (vibrations, acoustic emission, ...)
- General technical diagnostics and measurements
- Expert opinions

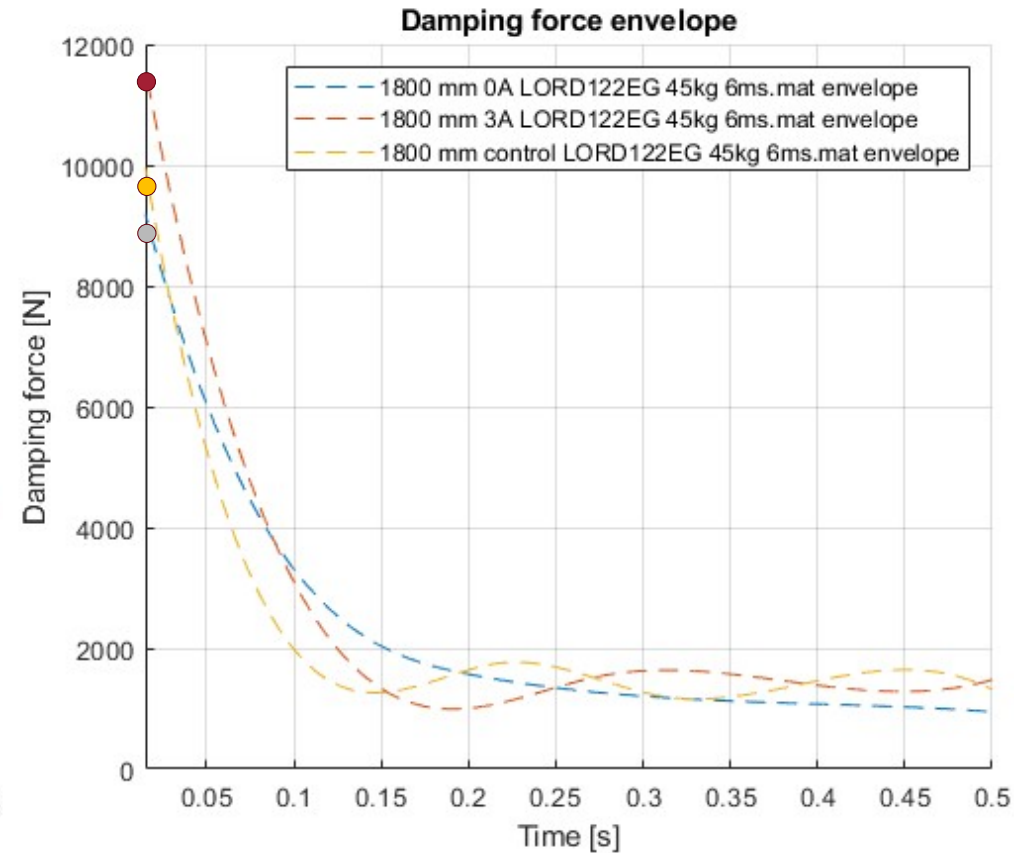
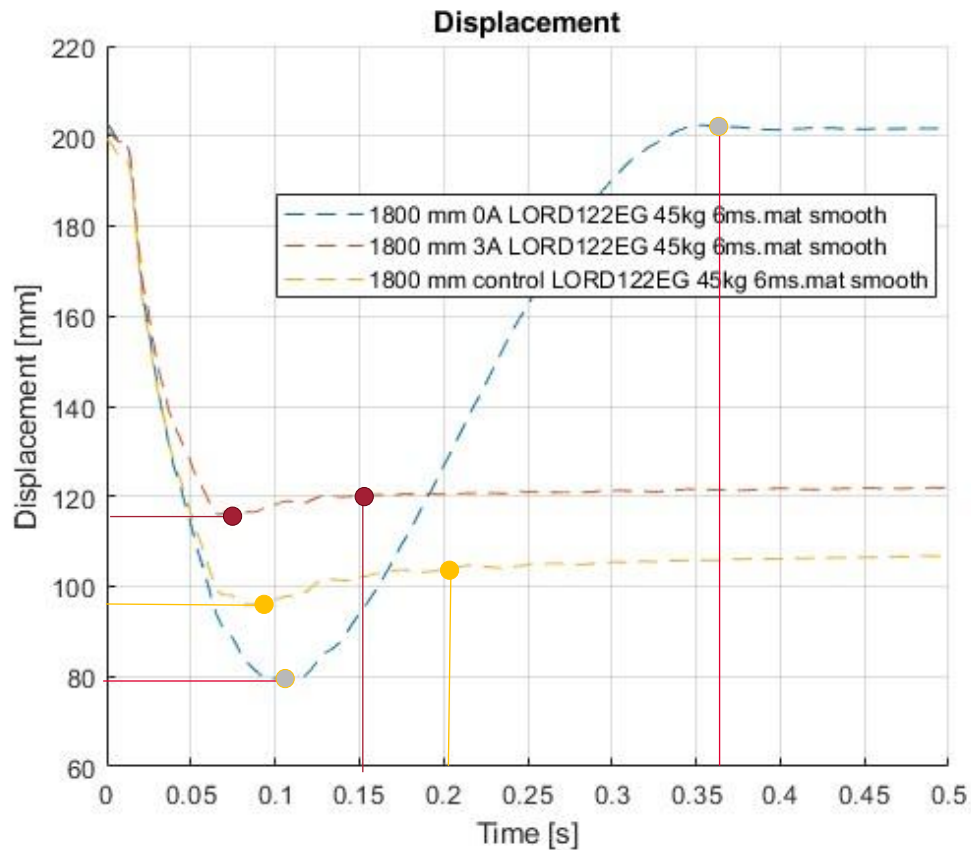
## BUT Wheel-rail Tribology Research Group

- Acoustics of wheel rail interface
- General experiments and measurement support



# RESEARCH

- COMMON LINK - Computational modelling for long term inter-sectoral advanced knowledge on Non-Newtonian fluids (NNF)



# RESEARCH

- MESTEC 2
  - Cooperation with prof. Jedelský on investigation of the burner noise
  - Cooperation with doc. Beneš on system for estimation of the load and fatigue of industrial electrodynamic shakers



SEMINAR IMID



5/11

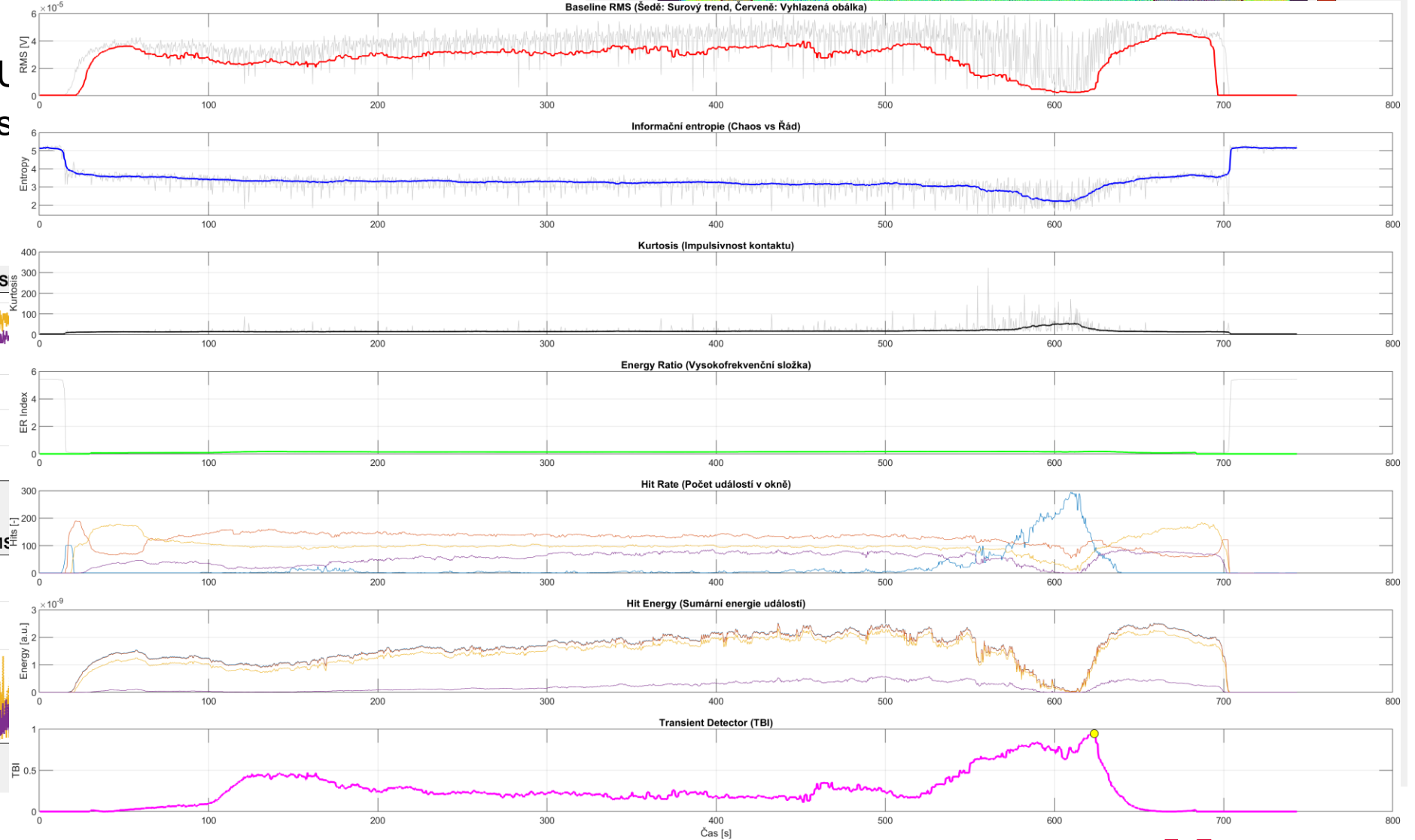
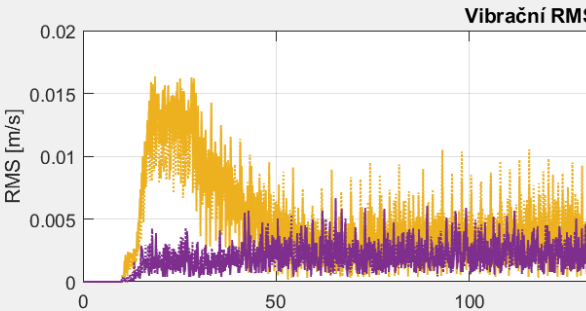
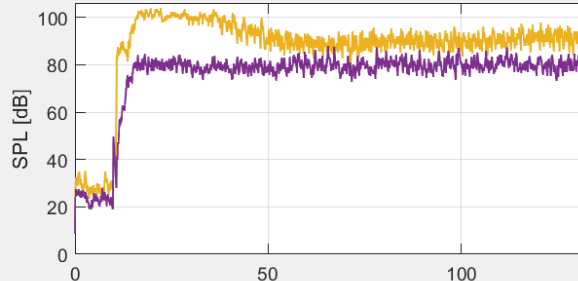
# RESEARCH



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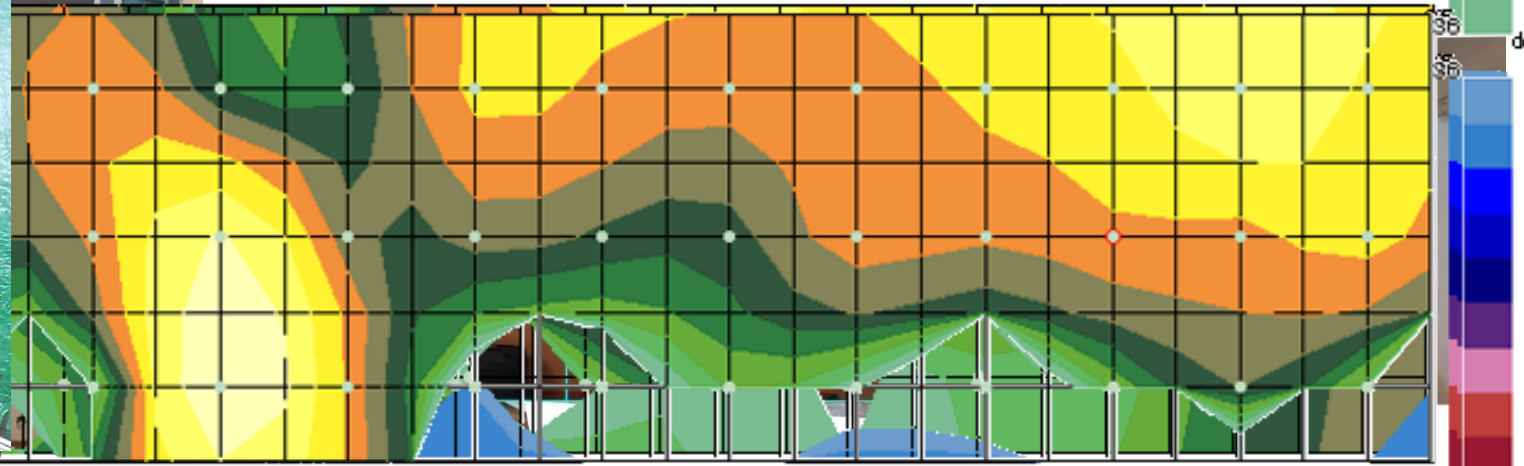
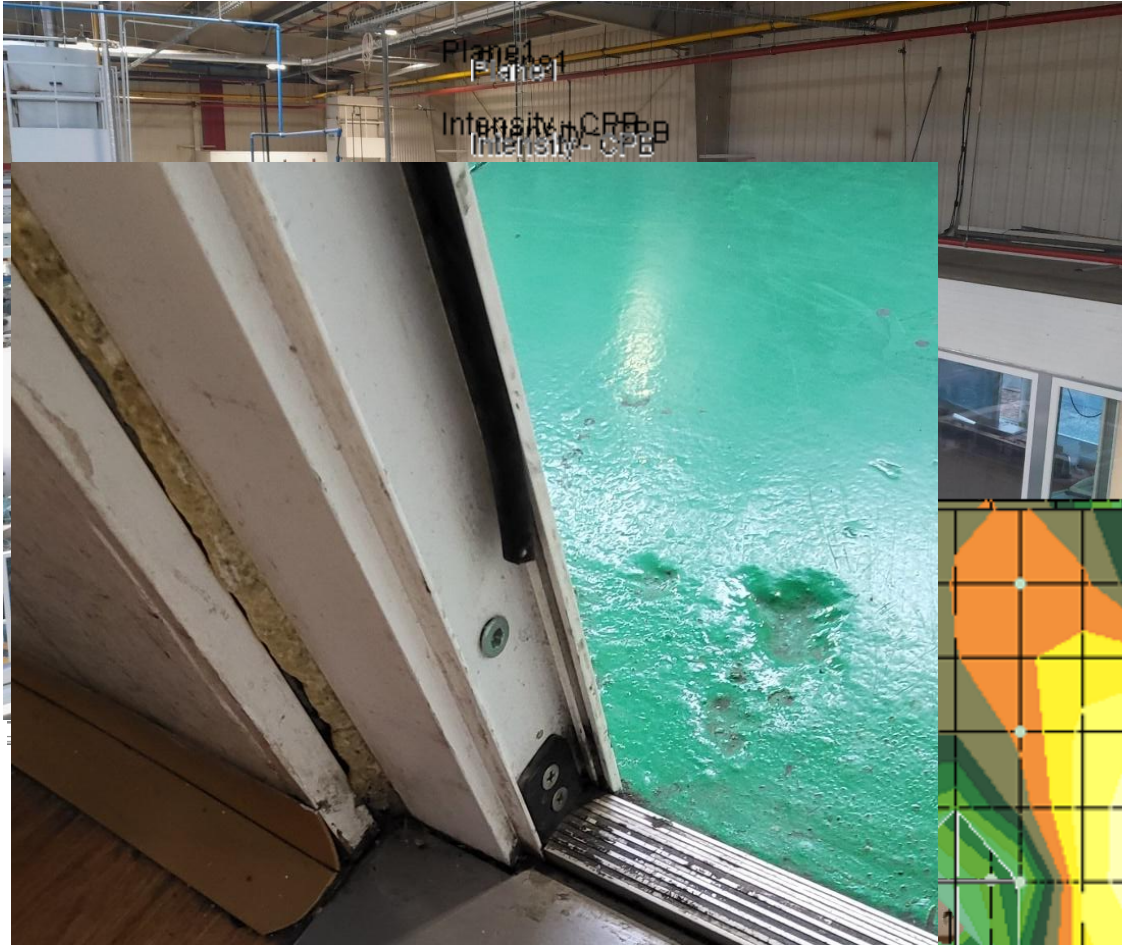
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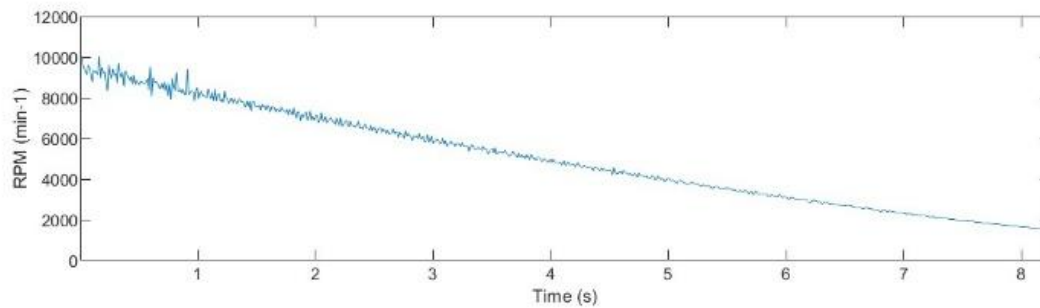
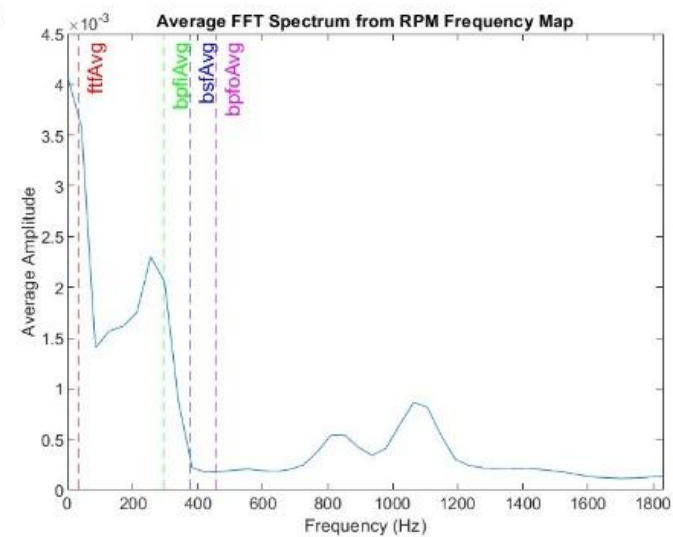
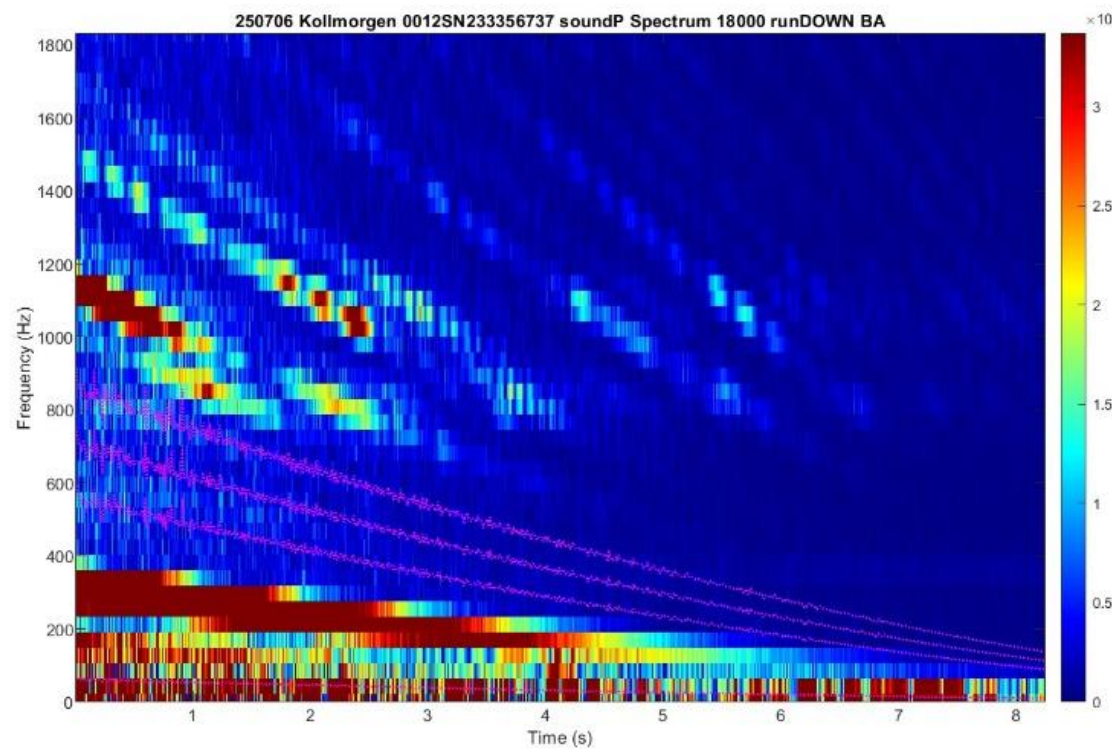


# COOPERATION WITH INDUSTRY

- Investigation of noise sources inside resting area for staff in manufacturing facility

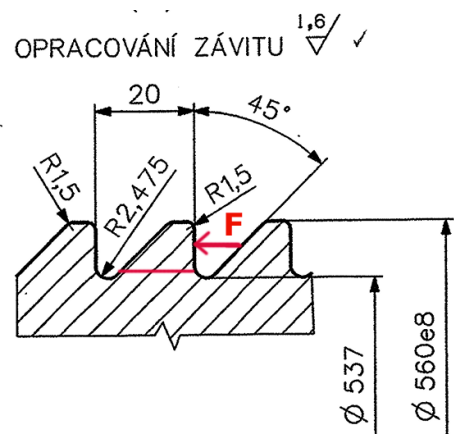


# COOPERATION WITH INDUSTRY



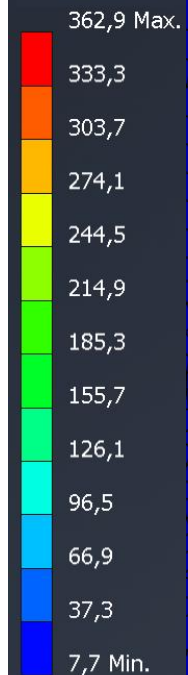
# EXPERT OPINION

- Analysis of design features of the and validation of its strength and

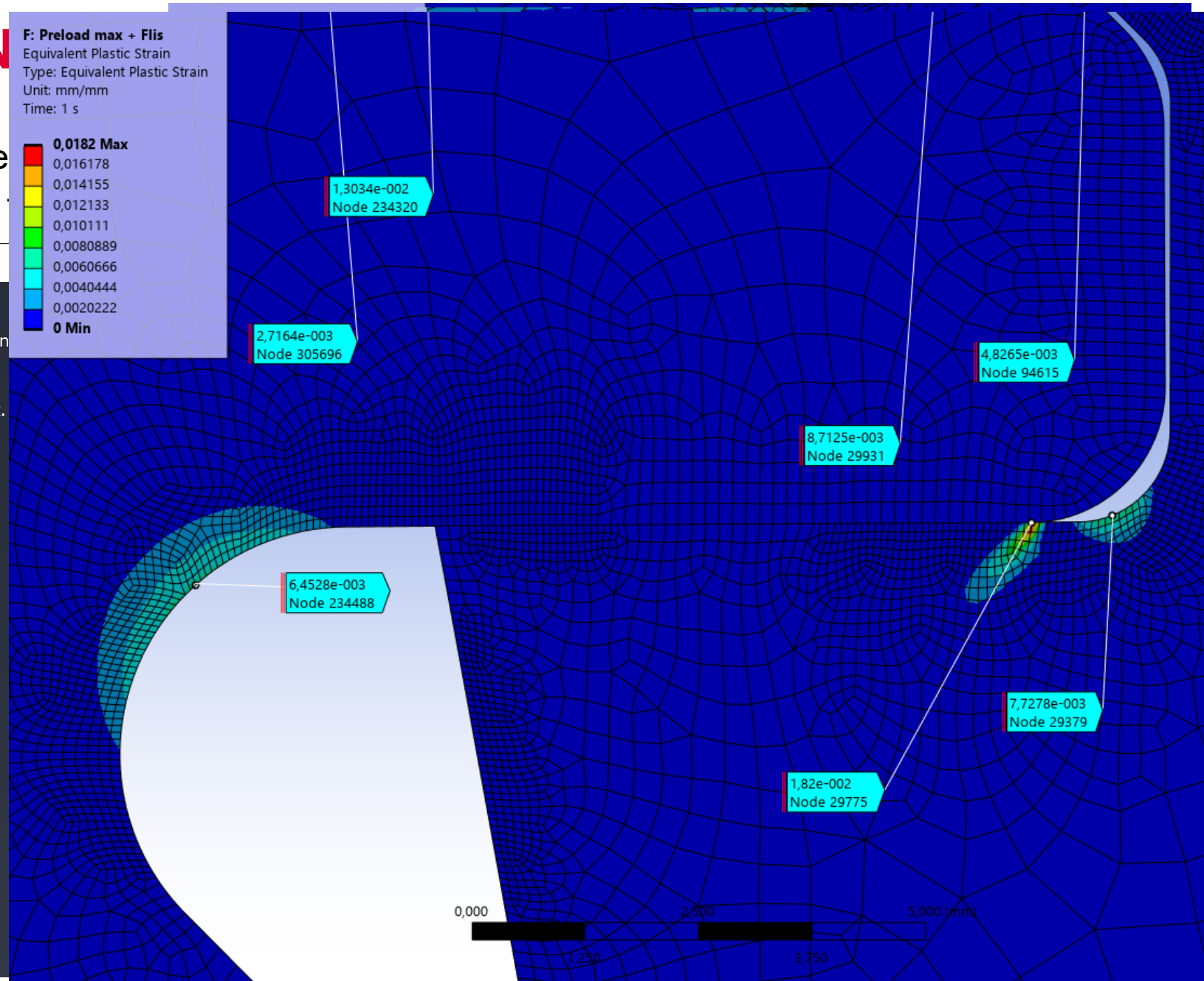
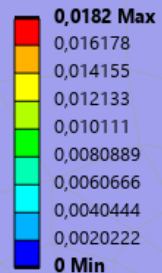


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Uzly:47995  
Prvky:30813  
Typ: Napětí Von  
Jednotka: MPa



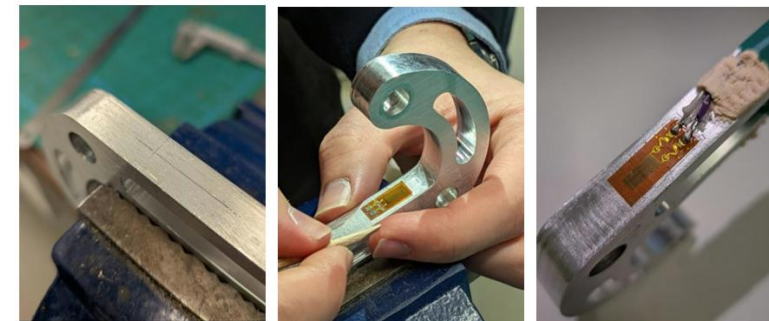
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Equivalent Plastic Strain  
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Time: 1 s



# EDUCATIONAL ACTIVITIES

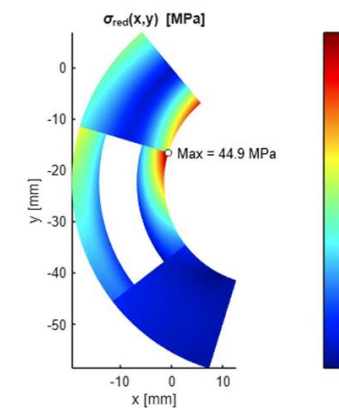
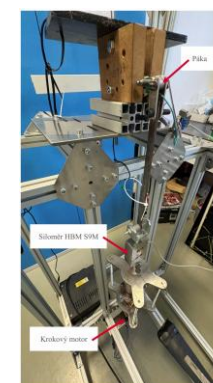
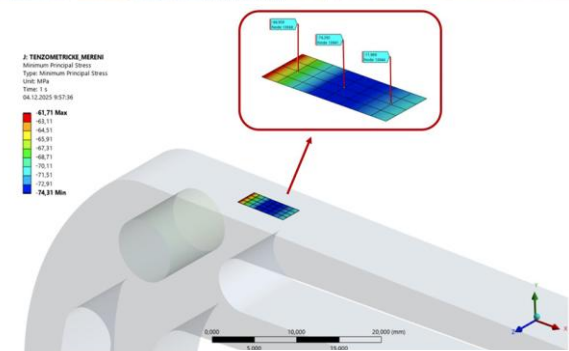
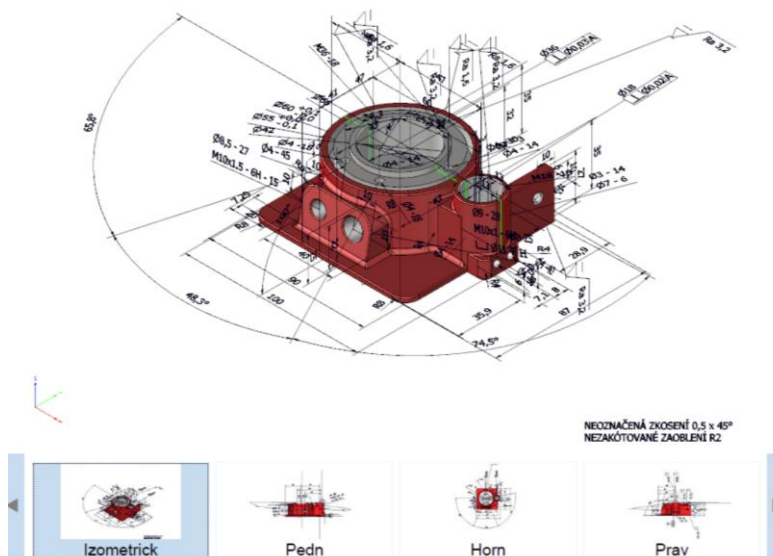
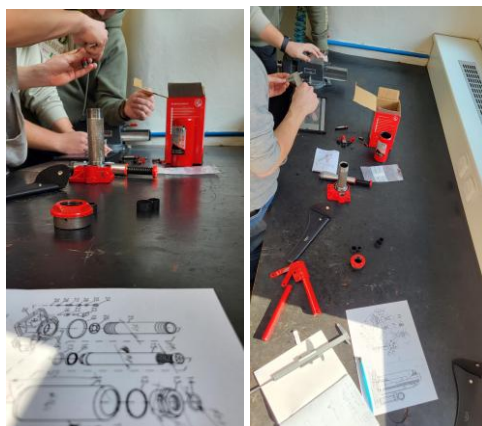
## Guarantor

- ZAP – Analytical project; masters degree, winter
- ZP5 – Project – Machine analysis; bachelors degree, winter
- 4KC – Design and CAD; bachelors degree, summer
- 4KD – Design and CAD - Advanced; bachelors degree, summer

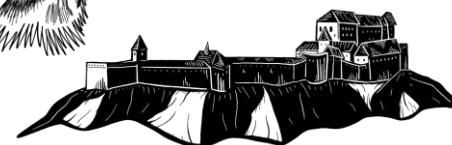
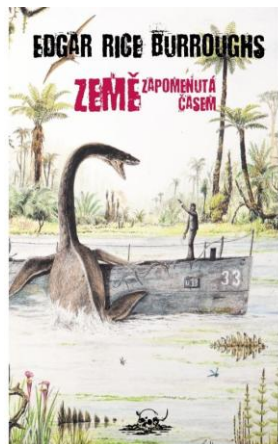
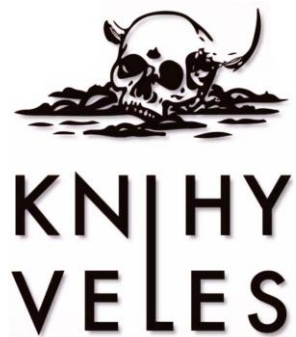


## Actively teaching

- ZAP – Analytical project
- 4KC – Design and CAD
- 4KD – Design and CAD - Advanced



# And to end on a lighter note



# THANK YOU FOR ATTENTION

Milan Klapka

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NEGATIVITY  
 $f(x) = |x|$

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