

VŠB TECHNICKÁ
UNIVERZITA
OSTRAVA

CENTRUM ENERGETICKÝCH
A ENVIRONMENTÁLNÍCH
TECHNOLOGIÍ

VÝZKUMNÉ
ENERGETICKÉ
CENTRUM

Overview

Výbuchové vlastnosti vodíku

Září 2019

Ing. Jan Skřínský, Ph.D.

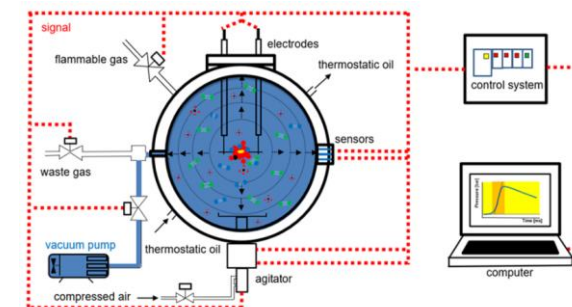
Laboratoř v číslech

- 11 let
- 1 z 211
- 1 z 21
- 111 vzorků / rok
- 11 parametrů
- 11 podmínek

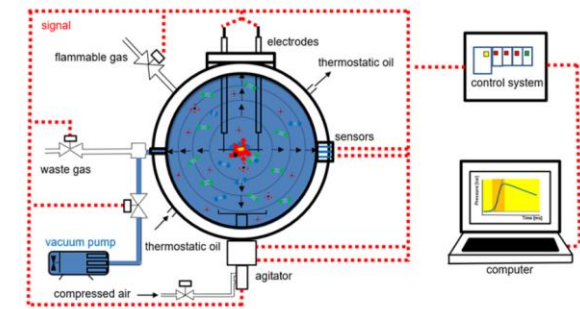
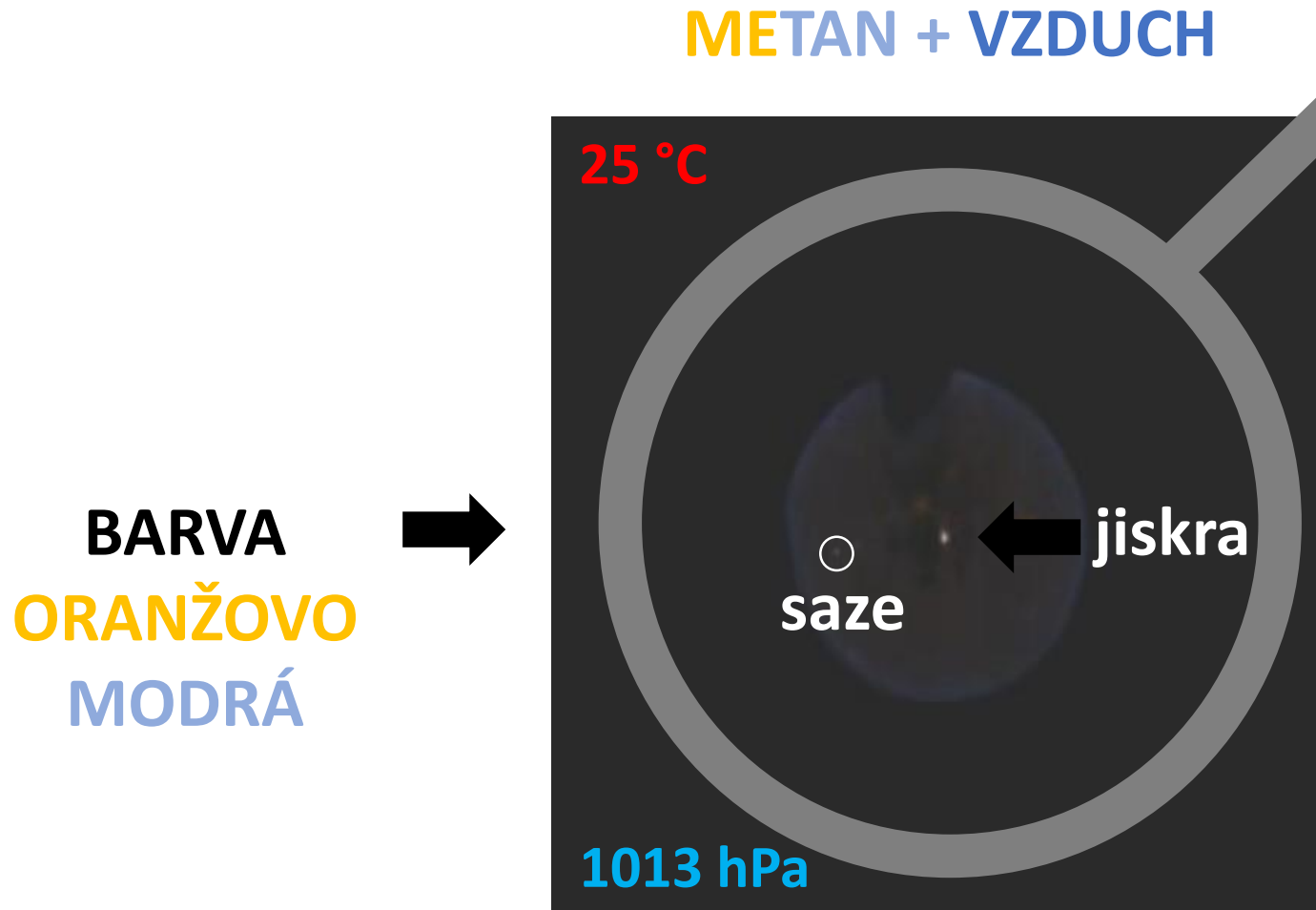


Hydrogenii explosio

BARVA
MODRÁ



Experiment



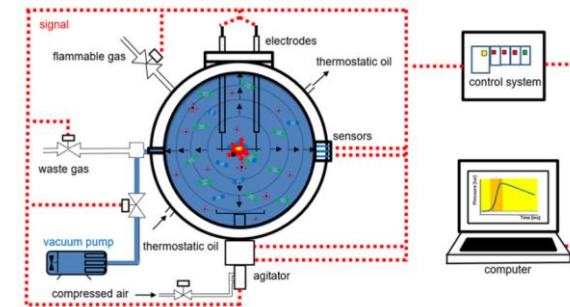
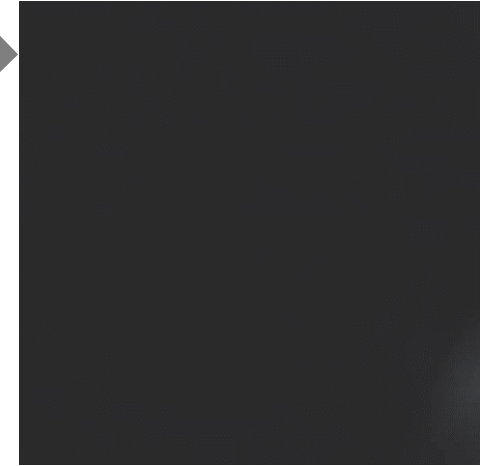
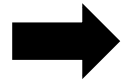
Experiment

VODÍK + METAN + VZDUCH

25 °C



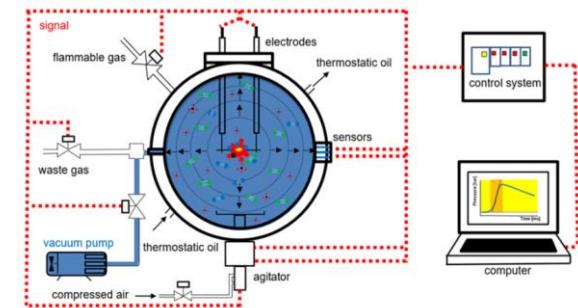
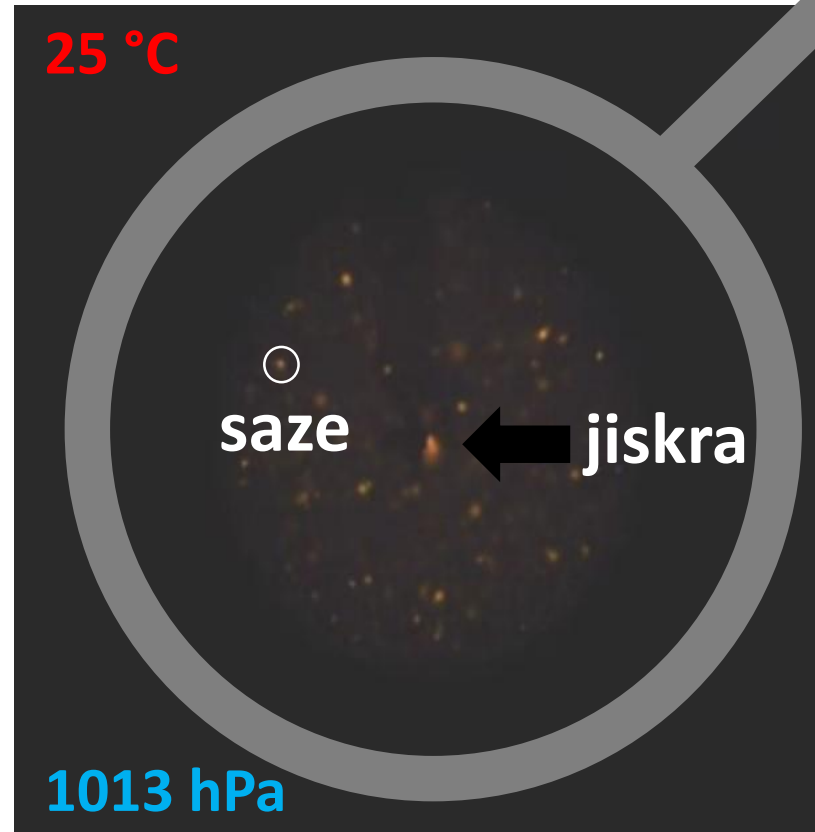
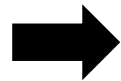
BARVA
MODRO
ORANŽOVÁ



Experiment

VODÍK + METAN + OXID UHELNATÝ + VZDUCH

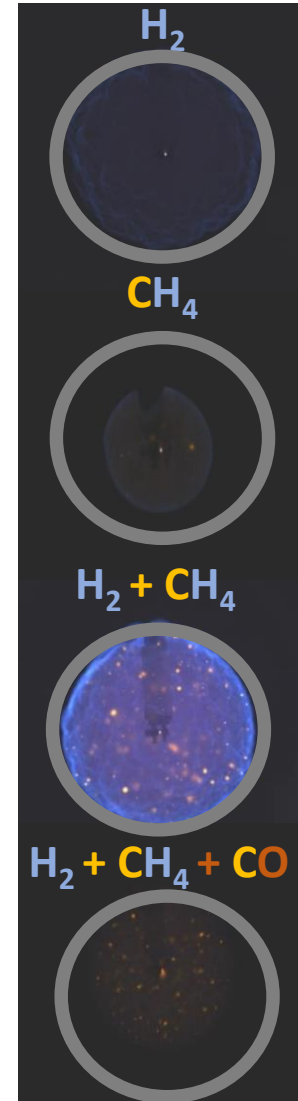
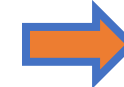
BARVA
HNĚDO
ORANŽOVO
MODRÁ



Experiment



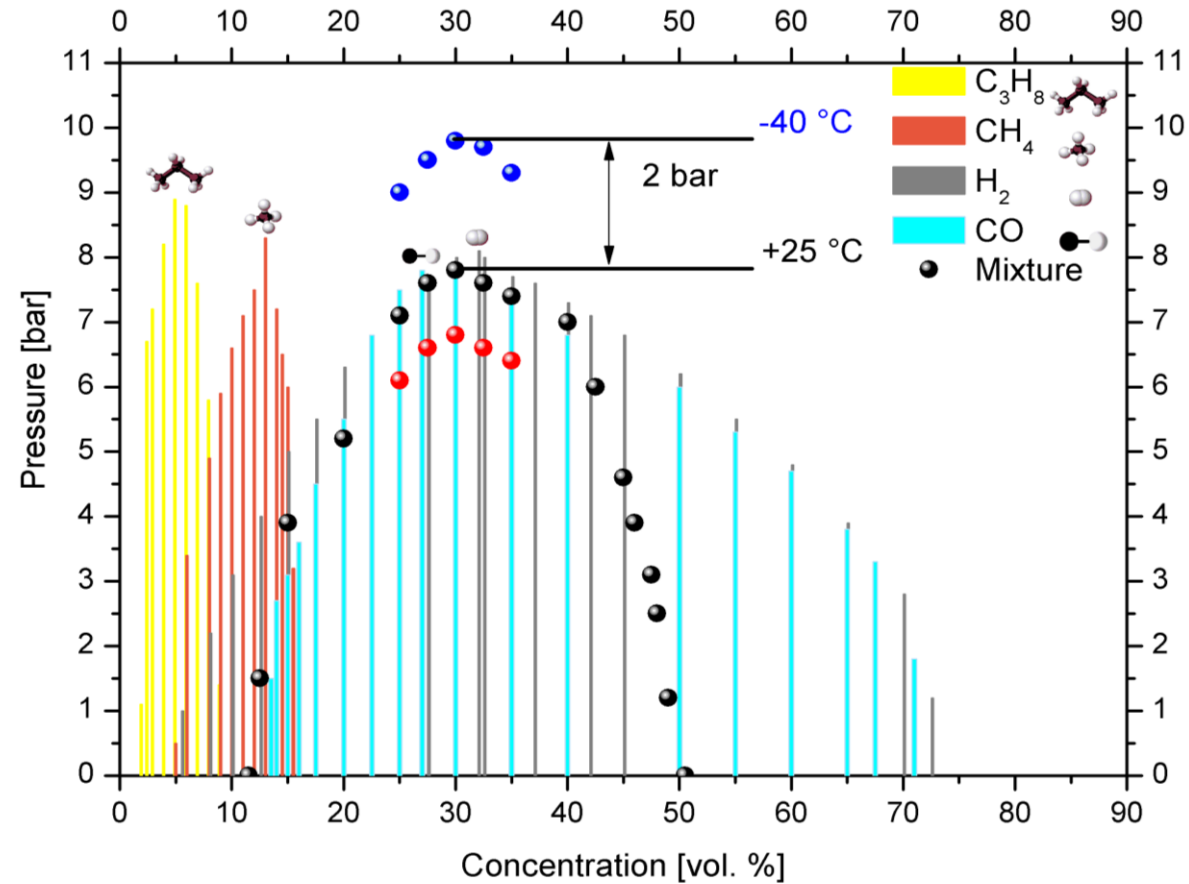
BARVA
NEVIDITELNÝ?
HNĚDÁ ?
ORANŽOVÁ ?
MODRÁ ?



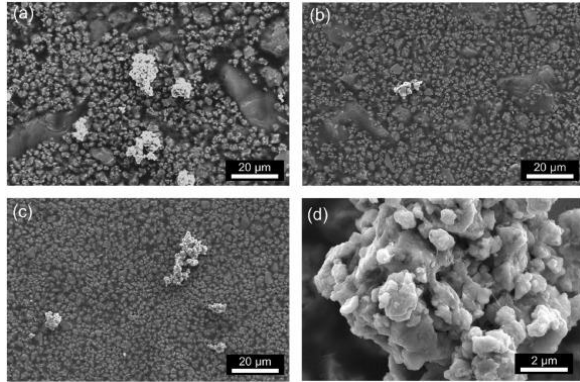
Výbuchy H₂ - porovnání s jinými plyny



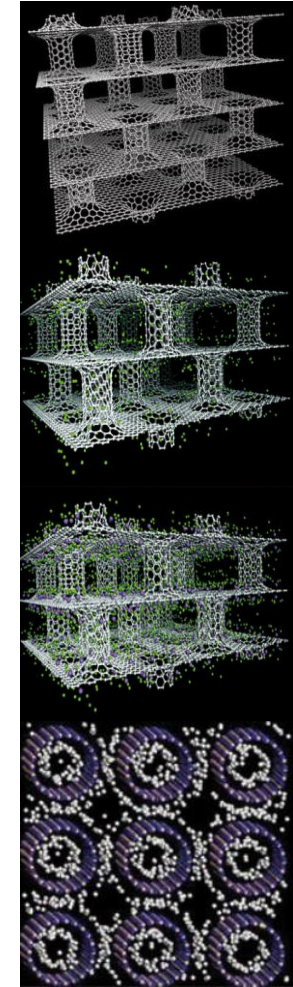
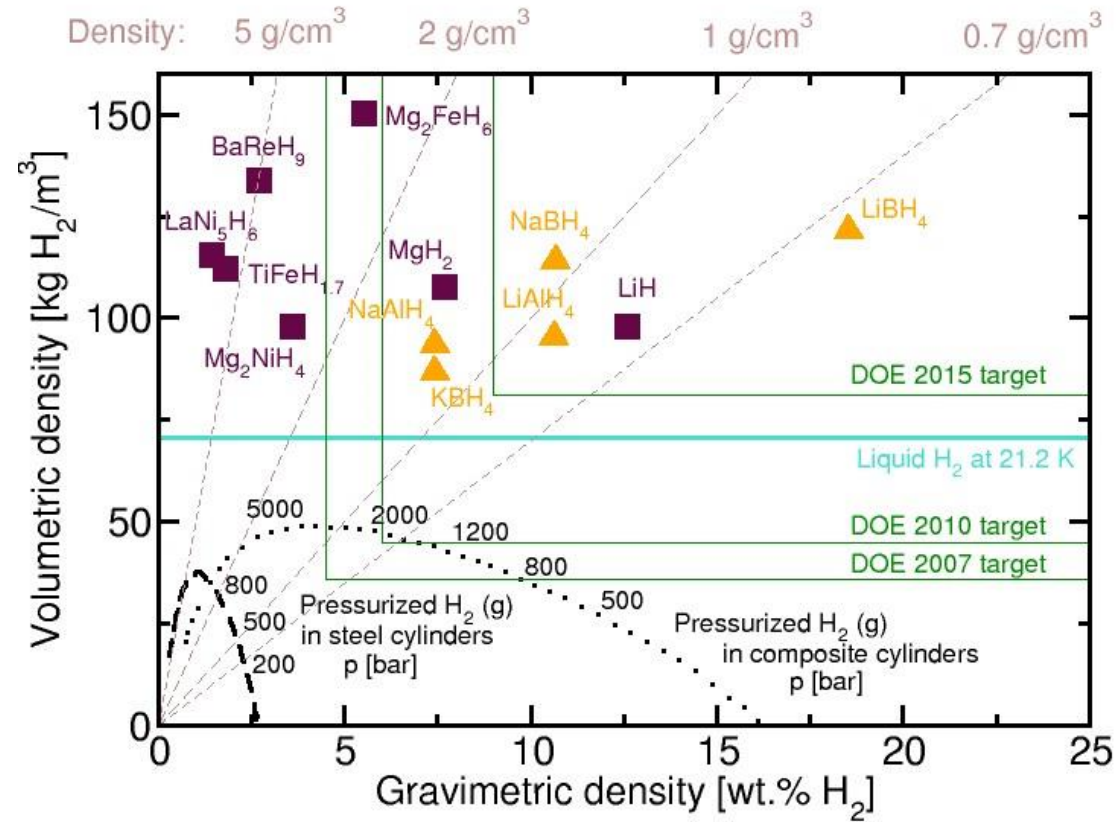
NEBEZPEČNÝ ?
PROPAN
METAN
VODÍK
OXID UHELNATÝ



Výbuchy H₂ – uchovávaného v pevné fázi



NEBEZPEČNÉ?



Děkuji za pozornost

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