



**FACULTY OF  
NUCLEAR SCIENCES  
AND PHYSICAL  
ENGINEERING  
CTU IN PRAGUE**

# Participation of Czech republic to EIC

Jaroslav Bielčík

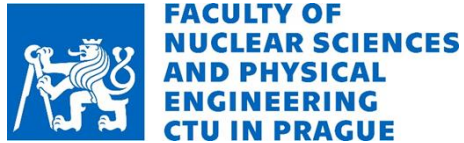
Faculty of Nuclear Sciences and Physical Engineering  
Czech Technical University in Prague

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Program: Large research infrastructures

EIC RRB meeting Roma, May 2024

# Czech participation in ePIC@EIC experiment

- **Czech Technical University in Prague/Nuclear Physics Institute CAS**
  - **Far Backward Detectors low $Q^2$  and luminosity: Jaroslav Adam**
  - design and construction of luminosity detector,  
funding to construct the prototype of photon spectrometer
  - design of **backward Hadron calorimeter: Alexander Prozorov**
  - testing of sensors for **tracking SVT detector**
  - The sensor for the ePIC SVT is MAPS ( monolithic active pixel sensor) produced in 65nm CMOS process co developed with the CERN ALICE ITS3 collaboration
  - Co-convener of ts WP2 SVT sensor testing group: **Lukas Tomasek**
- **Charles University:**
  - Backward **Electromagnetic calorimeter: Miroslav Finger**
  - Tests of radiation hardness of ingots @ Microtron Lab of NPI and CTU, Prague
  - **PbWO<sub>4</sub> crystals** (CRYTUR Turnov (CZ))
  - Ready for mass production ~70 pieces/month – ~840 pieces/year



**Charles  
University**

**Personal involvement: 8 senior staff, 2 postdocs, 5 Ph.D students, 3 students**