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Czech participation in new European Large Research Infrastructure FAIR

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Czech Republic is aspirant member of the Facility for Antiproton and Ion Research (FAIR) since March 2019. Unique new European Large Research Infrastructure FAIR is currently built up at the campus of German national laboratory for heavy ion research GSI Darmstadt. It will cover research in nuclear and hadron physics as well as in associated fields. It is included in the European Strategy Forum on Research Infrastructures (ESFRI). The current status of FAIR construction will be discussed as well as current status and future enlargement of Czech participation in all four pillars of FAIR, i.e. in CBM, NuSTAR, PANDA and APPA. Now days Czech scientist from NPI CAS, Silesian University at Opava and Czech Technical University are involved in studies of compressed baryonic matter (HADES, CBM); team from Silesian University is involved in studies related to nuclear astrophysics (NuSTAR); teams from Charles University and Czech Technical University participate in RD and construction of detectors for PANDA pillar devoted to particle physics. APPA pillar is devoted to application of nuclear and hadronic physics in further fields, like plasma physics, radiobiology, testing of detectors for European Space Agency (ESA) etc. Small group from NPI CAS interested in radiobiology participates now in APPA, further Czech groups involved in other fields covered by APPA as well as by other pillars, are welcomed. Investments of Czech groups in experiments planned to be carried out in FAIR are currently covered mainly by Large Research Infrastructure FAIR-CZ.

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