

## 7 Experiments at the GOLEM tokamak

In May 2021, the Timepix3 detector was installed at the GOLEM tokamak, which is located at the Faculty of Nuclear Sciences and Physical Engineering of the Czech Technical University in Prague [21]. The main idea behind the experiments was to test the automation of the data acquisition system. During both the 11th and 12th RE campaigns at the COMPASS tokamak, the Timepix3 detector was operated manually. After the campaigns, the data acquisition and the data analysis systems were automated via a package of scripts written in Python. The scripts were integrated into the GOLEM tokamak system, running system preparation, starting the data acquisition, conducting the data analysis, and preparing plots according to the status of the shot. During the experiments, however, the detector was damaged: the sensor bonding was destroyed and the sensor itself got detached from the chip. While there is no useful data to show, as it were the first few days of the first experiments, after a long pause at the tokamak, the data acquisition automation worked as designed. The Timepix3 was sent back to Nikhef for repair. In the future, the detector will accompany the RE diagnostics at the GOLEM tokamak.