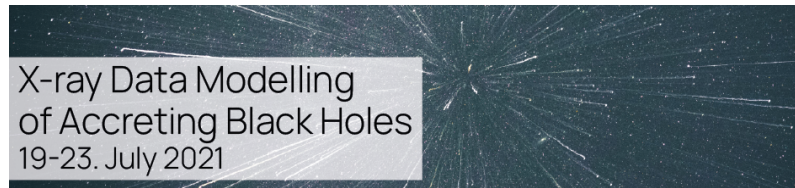# X-ray Data Modelling of Accreting Black Holes

Saturday, 17 July 2021 - Sunday, 25 July 2021

Hradec nad Moravicí

Scientific Programme

The workshop is intended for students interested in X-ray astronomy and X-ray data modelling. The workshop will focus on selected state-of-art techniques and models for the analysis of X-ray observations of accreting black holes in X-ray Binaries and Active Galactic Nuclei. We will briefly overview the main achievements of the current X-ray missions and the scientific goals of the planned future missions (IXPE, XRISM, ATHENA, eXTP). We will present the tools for X-ray data analysis, such as XSPEC, including also how to implement and use analytical and table models there. More advanced models and techniques (KY models, Cloudy, Stokes, Titan, Monk, Harm, Koral, Bayesian fitting method, etc.) will be also presented during the workshop. The programme will consist of lectures as well as practical hands-on sessions.

If the epidemiologic situation allows, the workshop will be organised at a hotel in Hradec nad Moravicí (at foothills of Jeseníky mountains, close to Opava in the north-east region of Czechia). We also count with the possibility of some lectures being online via Zoom.