

Postdoctoral position at Charles University in Prague

The candidate will work in the group of doc. Mgr. Martina Spousty, Ph.D. at the ATLAS experiment as a part of the project "ERC-CZ" LL2327 called "In-medium Radiation of quarks and gluons with the ATLAS detector at LHC". The main focus of the work will be the **jet substructure studies** in heavy-ion collisions with the ATLAS experiment. Contributions to some of phenomenological studies are also possible.

The team at Charles University (several Ph.D. students, one postdoc, two seniors) focuses on analyses using data from the **ATLAS experiment** involving jets, jet substructure, and charmonia. In the past fourteen years, the team has led or significantly contributed to several key measurements in the field that were published in high profile journals such as Physical Review Letters.

The team also works on **phenomenological modeling** of jet quenching and charmonia suppression and on developing new methods for efficiently mitigating large backgrounds present in proton-proton and heavy-ion collisions at the LHC.

Martin Spousta is an internationally recognized expert who led and leads various scientific teams. On ATLAS, he was appointed a convener of sub-group twice and a convener of physics working group. Currently, he is also one of conveners of the large LHC cross-experiment theory group. He had a leading role in developing the software and trigger needed for successful data-taking of the ATLAS detector in Pb+Pb runs. He also contributed to the construction of the inner detector of the ATLAS experiment. He publishes not only high profile experimental papers but also successful phenomenological studies.

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Candidate is expected to have Ph.D. degree by the start of the work which is the **1st of September**.

Candidate need to respond to this offer before **14th of June 2024** (the sooner the better).

Candidate is expected to have a good knowledge of **data analyses in HEP**. They should know well Root, C++, python.

Candidate is expects to **travel** to conferences as well as to CERN.

Salary is **60.000,- CZK** (2.300 EUR) with possible extras. Average salary in Czech Republic is 1.700 EUR. Renting one room apartment in Prague costs 400 EUR (suburb) – 600 EUR (center).

Candidate is expected to work from the office at least 3 days in a week and take 4 weeks of holidays during the year.

Candidate can count on a support from **an international team** of young people of various nationalities (Belgium, Italian, Polish, UK, Indian, ...) that are in the department.

Candidate can count on a friendly and open-minded environment ...



... if you resonate with this, we will be happy to welcome you in Prague