

STUDY OF POLARIZED AND UNPOLARIZED STRUCTURE OF HADRONS IN HADRONIC COLLISIONS

Moscow Institute of Physics and Technology (National Research University)

Degree or qualification is awarded: **PhD (Candidate of Science)**

Language of study: **English**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **375 000 RUB**

Programme webpage at the university website:

<https://eng.mipt.ru/programs/study-of-polarized-and-unpolarized-structure-of-hadrons-in-hadronic-collisions/>

Programme curator: **Denis Ustyuzhaninov**

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Entry requirements:

- Master's degree / equivalent in a related field
- B2 level of English
- Good track record of publications related to the topic of the intended research
- Strong research proposal 1,500 - 3,500 words

Research supervisor:

[Alexey Guskov](#)

PhD, DSc

Supervisor's research interests:

Spin physic with polarized proton and deuteron beams at the NICA SPD project. Structure of pion and kaon at the future COMPASS++/AMBER project (CERN).

Research highlights:

The Spin Physics Detector (SPD) is one of the main detectors planned at the NICA collider that is a Mega science project.

Supervisor's specific requirements:

- C++, Linux.
- ROOT, Geant4, experience in MC simulation.
- Statistics, passage of particles through matter, detectors, particle physics, hadron physics.
- Fluent English.

Main publications:

- PRL 114 (2015) 062002.
- PLB 772 (2017) 854).
- PRL 119 (2017) 112002.

Specializations within this programme