VALENTIN KLADOV

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Profile

I am currently analyzing one of the processes of e^+e^- annihilation into hadrons at the SND detector within my master's thesis. I am familiar with many measurement methods in high-energy physics, in particular with usage of the Cherenkov counter, with which I worked methodologically, and also analyzed data from it. I am looking for opportunities to participate in interesting projects related to data analysis.

Current work

Budker Institute of Nuclear Physics September 2020 – Present

Senior assistant, researcher on the SND detector.

- Analyze the cross section of $e^+e^-\rightarrow K_sK\pi$ process within a master's thesis;
- Develop a program for calibration of an aerogel Cherenkov counter.

Education

MSc Physics in Particle Physics September 2020 – Present

Novosibirsk National Research State University, Novosibirsk, Russia

BSc Physics in Particle Physics September 2016 – June 2020

Novosibirsk National Research State University, Novosibirsk, Russia

GPA – 4.93

Work and research experience

Budker Institute of Nuclear Physics September 2017 – July 2020

Laboratory assistant, researcher.

Researcher on SND detector September 2019 – July 2020

- Developed a new method for calibrating the spatial inhomogeneity of the aerogel Cherenkov counter.

Laboratory assistant in KEDR detector laboratory September 2017 – July 2019

- Constructed a setup for measuring the LySO crystal and SiPM parameters and measured some of them.

Skills and interests

Computer skills

Programming languages: C++.

Software: CERN ROOT, Mathematica.

Languages

Russian: native.

English: advanced level.

Other interests

Machine learning, cosmology, ….

Publications

A.Yu.Barnyakov, M.Yu.Barnyakov,…V.A.Kladov “Investigation of Cherenkov radiation component in LYSO(Ce) crystals”, Journal of Physics Conference Series. (co-authorship)

Conferences

International Scientific Student Conference (ISSC) with the work about calibration. First place in “Instrumental Methods and Technique of Experimental Physics” section.