My name is Valentin Kladov and I am a student of the master's program at the Physics Department of Novosibirsk State University, specializing in particle physics. I have a bachelor's degree in the same specialty. In parallel with my studies, I work in the laboratory of the SND detector at the Institute of Nuclear Physics.

Being engaged in detector physics, I took part in both methodological projects and data processing. In this area of physics, I most of all like the variety of methods and problems to solve, which allowed me to constantly learn something new throughout my education. Although all my activities were in one way or another connected with Cherenkov radiation, I am open to new interesting projects and research.

After 3 years of studying in particle physics, I gained a pack of theoretical knowledge and practical work experience, improved my programming skills in c++ and learned how to use ROOT. But when I work only in one institute my opportunities for realizing my abilities are very limited, hence, participation in an international collaboration with people from one of the world famous institutes is an ideal option for me to grow as a scientist.

During my summer internship with you, I will undoubtedly gain a lot of knowledge and unique experience. But at the same time, there are laboratories in your institute research direction of which is similar to the research that I have already done. This will allow me to apply both my knowledge and my skills to be a valuable student for your summer program.

Thank you in advance for opened opportunities

With best regards,

Kladov Valentin.

I work at the Institute of Nuclear Physics in Novosibirsk, analyzing the cross section of the e+e-→KsKπ process as part of my master's thesis. In previous studies, I developed a new method for calibrating the spatial inhomogeneity of the Cherenkov aerogel counter and took part in the study of the Cherenkov component in the LySO crystal.

I like to expand my knowledge. Although all my practical activities were in one way or another connected with Cherenkov radiation, I am open to new interesting projects and research related to the particle physics and the detectors physics.

I enjoy my current work on particle physics data analysis, and I am eager to expand my knowledge in this area. Hence, I tried to choose the projects for which I have the most of the required skills + machine learning because I am very interested in its implementation into the high energy physics. Working experience in the largest particle physics center in the Germany will allow me to grow as a scientist.

I am currently working remotely in my institute (part-time university practice), so the online format of the summer school will not be a problem for me. Internet communication, especially in a non-native language is also a useful skill. :)

Finally, I don’t have any super concrete desire, for example, to analyze only CMS data, I will be glad to work on any project connected with data analysis, c++, ROOT or some basic machine learning (such as B16r, B11r or B6), if no places in the chosen 3 projects will be available.

but that interest came to me not so long ago, and I have only basic knowledge of python and machine learning.