

I am glad to give my recommendation to Ivan Ivanov. He attended my lectures on quantum mechanics in the course of theoretical physics and we also discussed the same matter in a small class. I think I got to know him well and I hope that my opinion of Ivan could help him in entering California Institute of Technology graduate school.

I know Ivan as an able and promising student. He has got excellent knowledge of general physics, and solid preparation in mathematics as well. In my opinion, that helped and will help him to achieve success in advanced theoretical physics courses. Unfortunately, I cannot judge his experimental ability but he did very well in my theoretical course. Ivan has very high standing even at the Department of General and Applied Physics, the best one of MPTI. However, he does not feel content with the past accomplishments, does not stop working thoroughly and maintains his position as one of the strongest students of his year.

What perhaps is even more important than his preparation is Ivan's permanent interest in science. He is interested in high energy physics. From his enthusiastic approach to my subject I see that he enjoys quantum mechanics as well. Ivan is apparently planning to make a career in science, and this purposefulness is his very valuable quality. In my opinion, his even temper, discretion and friendliness will assist him in all his undertakings. Maybe, his being dissatisfied with himself sometimes grows into lack of self-confidence and hinders Ivan, but this is not an obstacle sufficient to inhibit his development.

Taking all the above into consideration, I would like to give Ivan Ivanov my wholehearted support.

The MPTI's students acquire grounds of physics and mathematics at Alma Mater for 2.5-3 years. Then they continue training at Research Institutes where they participate in practical work of Laboratories and specialize in some particular area of modern Physics. Kurchatov Institute for Atomic Energy is a place where some students have a practical work in experimental and theoretical physics.

Student Ivan Ivanov is working at Low Temperature Physics Lab one day a week during 6 month. This is adaptation period when one becomes to be acquainted with experimental work and equipment. The circle of problems at the Lab is relatively wide:

- muon research of quantum crystals and liquids;
- electron kinetics and thermodynamics of HTS in strong magnetic fields (up to 25 T) and low temperatures (down to 20 mK);
- physical phenomena at helium crystallization.

Mr. Ivanov was proposed to take part in the investigation of dielectric constant of the La_2CuO_4 single crystal in the vicinity of metamagnet transition where conductivity doubles. Is there a change of it at metamagnet transition or not? It is very important to know from the theoretical point of view.

I believe that by spring 1992 Ivan Ivanov will have interesting results for publication, his good grounding permits me to think so.