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To whom it may concern,

I am writing to you a recommendation letter on behalf of Dr. Jae-hyeon Park who is applying for a postdoctoral position in your group starting from fall 2013.

Jae-hyeon was a student at KAIST, Korea, under the supervision of Prof. Pyungwon Ko and got his PhD in 2005. He stayed at Tohoku University, Japan, from Nov. 2005 to Oct. 2007 as a postdoctoral research fellow of Japan Society for Promotion of Science. Since Nov. 2007, he has been in Europe, and currently staying at Dresden. I got to know him when he joined our group at Tohoku University.

He has been working in various fields of particle phenomenology. In particular, he has been producing interesting papers on flavor/CP violation in the context of supersymmetric standard models. Here I would like to mention one of his products along this direction in collaboration with P. Ko and myself. In the article "Sflavor mixing map view from a high scale in supersymmetric SU(5)", JHEP 0811,051(2008), we made a new analysis on the flavor violation in the context of SUSY GUT. A particular emphasis is done on the model independence of the analysis: we did not take, for instance, the minimal supergravity boundary conditions. Rather we just impose the GUT relations among the sfermion masses at the GUT scale, and take other parameters rather free. Quite a few models of SUSY GUT will fall into this class (or a slight modification) of the boundary conditions considered in this paper, and thus the results presented there will be useful. In this ground, we compared the constraints/prospects of squark sector with those of the slepton sector. We believe that this kind of global analysis sheds light on some new aspects of flavor physics in SUSY GUTs, though each of the analysis itself is not completely new. He pursued this line of arguments in the subsequent papers, which considered some particular issues of the SUSY flavor violations. During this series of papers, I should admit that the driving force is Jae-hyeon. I highly appreciate his physics insights on flavor physics (in particular in SUSY) as well as his very powerful computer

skills. I evaluate his contribution more than 80% in this project.

Besides the new activity on the flavor violation in extensions of the Standard Model, Jae-hyeon has been expanding his research field: for instance he was discussing a method to make a numerical analysis to evaluate the false vacuum decay, and also discussing the vacuum stability bounds on flavor violating tri-linear SUSY breaking couplings based on this numerical method. Quite recently he addressed the question of CP violation in an extension of the Standard Model Higgs sector in light of the latest discovery of the Higgs(-like) particle at the LHC. This work is obviously very interesting and important. These activities clearly show his high ability and originality to explore interesting directions of research.

As for his style of research, I should mention his excellent computer skill which enables him to perform very complicated analyses. I should also add that with this skill he is able to jump into new fields such as collider physics and others.

I have enjoyed working with him. Though not very outspoken, he is very moderate and reliable. He is now mature enough to make a significant contribution as a senior postdoc.

To summarize, I recommend Jae-hyeon very strongly for a postdoc position in your university.

Sincerely yours,

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Professor of Physics

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