



INSTITUT FÜR PHYSIK
DER UNIVERSITÄT OLDENBURG
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Vice-président chargé du développement international
Université de Cergy-Pontoise
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Oldenburg, 10. July 2015

Dear Vice president,

within the period 1st of February to 31st of July 2016, I would like to spent three months of my academic sabbatical at the *Laboratoire de Physique Théorique et Modélisation* of the Université Cergy-Pontoise.

In particular, I would like to cooperate with *Prof. Dr. Hung The Diep* on the simulation of magnetic systems, e.g., on the application of the Wolff cluster algorithms for (almost) planar Blume-Emery-Griffiths models. Furthermore, I would like to work with *Prof. Dr. Andreas Honnecker* on the application of large-deviation simulation methods to strongly correlated quantum systems. Both researchers have agreed to host me during the aforementioned period. There are several other possible collaboration projects at the LPTM and the university, e.g., I could collaborate with Dr. Thierry Huillet on extreme-event statistics.

To finance my visit, I hereby apply for financial support provided by the Université Cergy-Pontoise for the duration of three months.

For further information, please find attached my scientific cv, including, e.g, my list of publications.

I would be pleased if the Université Cergy-Pontoise is able to offer financial support.

Yours faithfully

Prof. Dr. Alexander Hartmann