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Recommendation letter for Mr. NGUYEN Quan Ba Hong

I have met Mr. NGUYEN Quan Ba Hong on September 2018, when, endowed with a a scholarship from the Center Henri Lebesgue, he arrived from Vietnam and entered the second year of our Master program in fundamental mathematics, program that I chair.

As a preliminary, I must say that our Master program is well-known in France as particularly difficult — even compared to the highest standards of French mathematics. These high requirements originate in the fact that the program is designed for students from the École Normale Supérieure of Rennes, specially selected at the end of the second year of the Licence and trained from there to become professional mathematicians. In that, the program is directly comparable, in France, only to those of Sorbonne University, University Paris-Saclay and University of Lyon (hosting the students of other écoles normales supérieures).

This being taken into account, it is highly remarkable that immediately upon arrival Mr. NGUYEN Quan Ba Hong reached the expected requirements of the program, as attested by its averaged grade on first semester — 13.9 over 20.

Beyond the indirect pieces of information collected as a chair of the program, I had the opportunity to witness directly mathematical skills of Mr. NGUYEN Quan Ba Hong when he took his seminar test. Along the first semester, in parallel of math lectures, he studied — under the supervision of Pr. Florian MÉHATS — a classical paper by Pr. Michael Weinstein : M.I. Weinstein, Nonlinear Schrödinger Equations and Sharp Interpolation Estimates, *Comm. Math. Phys.* 87, 567-576 (1983). Both his written report and oral exposition of the paper were noticeably deep, clear and neat and he received the grade of 16 over 20 for it.

For all these reasons, I believe that Mr. NGUYEN Quan Ba Hong is **well equipped to undertake a Ph.D.** in any field of the *analysis of partial differential equations* and their discretizations.

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