

Date: 29/10/2012

Re: Mr C. Weiland

Dear Prof. Romão,

I am delighted to be able to write a reference for Cedric Weiland. During the summer of 2009 he worked on developing an analysis of the decay of tau leptons to the Lepton Flavour Violation final state containing three muons for the SuperB experiment. From the outset of this internship Cedric presented himself in a thoroughly professional way. In terms of attendance, he always arrived at work early and when he has felt it necessary he has put in additional hours by staying late in the evening. During the internship at QMUL Cedric became a real asset to our group.

He quickly familiarised himself with the necessary skills in order to carry out this project and on a number of occasions he took the initiative to communicate with the international community to further his efforts. Cedric was one of the first people to use SuperB software in order to produce a sensitivity study for this experiment. As a result there were occasions where he has had to find a work around to a limitation that had not previously been envisaged or encountered. His results indicate that there are significant gains that can be made in searching for tau to 3mu decays at SuperB relative to existing measurements. In addition to performing an analysis on SuperB, Cedric was able to investigate the analysis of this decay channel on the BaBar experiment using Monte Carlo as a cross check.

In October 2009 Cedric presented his results at a SuperB collaboration meeting, and those results were later included in the physics programme sensitivity estimates. To have achieved this goal in a summer internship is itself a reflection of the quality of his work. I was very impressed by Cedric's knowledge of the subject, his ability to quickly learn and solve complicated problems that have arisen. At the end of 2011 Cedric came to the Frascati laboratory for a SuperB physics workshop to present recent results on theoretical calculations he had been doing on possible new physics effects lepton flavour violating decays. Those results are very relevant to the SuperB physics programme and will provide reference benchmarks for searches of lepton flavour violation at Belle II and SuperB experiments toward the end of this decade.

Overall I was very pleased with Cedric's performance, and had he chosen an experimental route would have had no hesitation in offering him a PhD position to study in our group. I encourage you to consider his application for a position in your group carefully.

Best Wishes,



Dr Adrian Bevan

Reader in Particle Physics