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Ioannina Dec. 12, 2012

Dear Sir/Madam,

I am writing this letter of recommendation on behalf of Dr Kristag Suxho, who has applied for a post doctoral position in your department. I know Kristag quite well since he has been with our department for a number of years, both as an undergraduate and as a graduate student. He graduated from our department in 2005 with a very high point average (9 out of maximum 10) and he has just completed his PhD thesis entitled "Phenomenological Study of Theories Beyond the Standard Model of Elementary particles in the Large Hadron Collider (LHC)".

Even though he did not happen to attend any of the courses I have taught, I am familiar with him since we often discuss physics. We have also collaborated closely on the subject of Dark Matter Searches and, together with A. Dedes and I. Giomataris, an experimentalist, we produced a paper on the interesting subject of Secluded Dark Matter, which has been published (Nucl.Phys. B 826 (2010)148. This paper was motivated mostly by the then prevailing leptophilic dark matter scenarios. It was shown, however that, under certain favorable experimental conditions, future dark matter searches involving low energy electrons may compete or even be superior to the conventional nuclear recoil experiments. After that he continued his research on LHC related physics, which culminated into two papers: "Heavy Fermion Non-Decoupling Effects in Triple Gauge Boson Vertices", published in PRD this year, and the indeed the very timely "Anatomy of the Higgs boson decay into two photons in the unitary gauge", which is pending publication. As you are perhaps aware, it is into this two photon decay channel that something very much like the Standard Model Higgs has been seen at LHC. This decay channel does not occur at tree level, but it proceeds at the loop level. Thus very skillful techniques and good intuition are required to handle the complicated and often divergent integrals. Perhaps the "anatomy" of the characteristics of this decay may have important phenomenological implications in establishing the identity of this particle.

Kristag is a serious and hard working physicist. I often see him during his long working hours, since our offices are adjoining. He has a good

background in physics and he is a formidable calculator. Furthermore he has a good physics intuition and tends to work independently. I expect him to be productive in any area of elementary particle physics.

In summary I recommend to you Kristag Suxho for a post doctoral position without reservations. If I can be of further help, let me know.

Sincerely yours,

J.D. Vergados

Professor of Theoretical Physics.