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Prof. Gustavo C. Branco,
Centro de Fisica Teorica de Particulas,
Instituto Superior Tecnico,
Av. Rovisco Pais, P-1049-001 Lisboa, Portugal

Dear Professor Branco:

I am writing to apply for the postdoctoral position in the Centro de Fisica Teorica de Particulas (CFTP) of Instituto Superior Tecnico (IST), Lisbon. I learned that you have an open position for postdoctoral research associate in particle phenomenology, and I am very interested in participating researches in this area in your group.

Given my research experiences, I believe I will be able to contribute to your group.

* First, I have several years research experience on heavy flavor physics. During my doctoral period, I studied B (B_s , B_c) weak decays and their CP asymmetries; ψ 's and Υ 's annihilation and open flavor decays with a Bethe-Salpeter (BS) model, which incorporates instantaneous BS equation with a QCD-inspired potential. In doing these researches, I made efforts on theoretical derivations as well as numerical calculations. These works were written into several papers and published in JHEP, PLB, JPG, IJMPA and CPL.

* Second, I am currently focusing on topics related to composite Higgs models where the Higgs boson is considered as a pseudo-Goldstone boson due to a spontaneously broken symmetry. I am trying to describe composite Higgs with the BS equation and to see if we can gain more dynamical details.

* Third, my experience on heavy ion collision physics would be also helpful since they increased my skills and knowledge. For studying elliptic flow, I did some data analysis works with the data simulated from A Multi-Phase Transport Model. I also did some theoretical works on quark-gluon plasma.

In doing my researches, I frequently used *Fortran* language to program and *Mathematica* to perform some calculations. I also used *PAW*, *Origin* and *LaTeX* for drawing figures.

I would greatly appreciate it if you would grant me an opportunity for interview. And I would like to try my best to overcome any difficulty encountered in the future and to contribute to your group.

Thank you very much for your consideration. I'm looking forward to hearing from you.

Best wishes!

Sincerely,

Huifeng Fu