

A letter of recommendation for
Alessio Maiezza

It gives me great pleasure to recommend Alessio Maiezza for a postdoctoral position with your group. I got to know Alessio through my collaborator Fabrizio Nesti, his PhD advisor. Some years ago Fabrizio, Francesco Vissani and I embarked on a program of connecting neutrino physics at low energies with the high energy collider physics. The ideal setting for this is provided by the Left-Right symmetric theory, introduced in order to understand the origin of parity violation in weak interactions. It is this theory that led to neutrino mass and the seesaw mechanism long before experiment.

The LR theory offers an exciting LHC phenomenology, while at the same time allowing for new physics contribution to low energy processes such as neutrinoless double beta decay and lepton number violation. It is therefore crucial to know the lower limit on the LR scale, and it has been known for a long time that rare processes such as $K_L - K_S$ mass difference play a central role in this. In order to be sure whether or not LHC can probe the theory, we decided with Fabrizio to revisit this issue carefully. It was an extremely demanding project, and fortunately we were joined by my postdoc Miha Nemevsek, and eventually by Alessio. Getting Alessio into it was a perfect decision.

It was great to see him plunge into this subject, and little by little master an enormous amount of physics and technique needed. The diligence, perseverance and the dedication that he showed is rare even among the best students that I have ever seen. He is driven completely by the desire to learn, understand and do as complete a job as possible.

He was a major force behind our paper and he ended up doing a lion's share of work. During this process Alessio had to learn a great deal of physics, both conceptual and technical. It is thanks to him that we ended up doing a complete job, which made our paper become a standard reference in the field almost immediately. He went on to study the issue of ϵ' in the LR theory, with Stefano Bertolini and Fabrizio, and they tell that his contribution was again major. I am sure that his integrity and perfectionism prevented him from writing more papers.

Alessio is calm, thoughtful, clear minded, unassuming. In his mild but self-assured manner, he is strong headed, and he sticks to his guns no matter what.

In short, I most strongly recommend Alessio to you. I am confident that he will be a valuable group member and excellent collaborator.

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