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Letter of recommendation for Bhavik Kodrani

I know Bhavik Kodrani well for over a year, since he became a postdoc in the Department of Theoretical Physics at the Tata Institute (TIFR). However, even earlier I had met him at a few conferences, and was familiar with his work. During his Ph.D. at the Physical Research Laboratory (PRL), Ahmedabad, he had worked on two-Higgs doublet models and their applications for flavor physics: $B - \bar{B}$ mixing, weak phases, etc. I also happened to be the external examiner for his Ph.D. thesis, and it was clear that he knew his analyses thoroughly.

During Bhavik's last year here as a postdoc, we have started working together on a couple of projects, related to the decay rate of $B_s \rightarrow \mu\mu$ and the CP asymmetry in $D - \bar{D}$ mixing. The latter project is nearing completion, and is almost entirely Bhavik's work since I have not been able to give much time to it. However I have observed Bhavik's improving maturity and numerical skills during this time. In this work, Bhavik shows how the direct and indirect CP asymmetries in $D \rightarrow KK$ and $D \rightarrow \pi\pi$ are related, using a model-independent formalism.

Bhavik is careful and reliable as far as analytical and numerical calculations in flavor physics are concerned. However he still needs some time to become an independent researcher; he needs to start taking initiatives for starting new projects. He will do well with some initial mentorship, and would fit well in a group working in high energy physics, where he could contribute his expertise in flavor physics. I would like to recommend him for such a postdoctoral position.

Sincerely,

Prof. Amol Dighe

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