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Dear Colleague

I write to you to recommend **Daniel Wegman** who is applying for a research position at your institution.

Dan's current area of research centers on neutrino and dark-matter phenomenology and model building; he has been working under the direction of Ernest Ma. I am familiar with his research through conversations I had with Dan, and a seminar he gave. The most interesting project Dan has worked on was a model of the neutrino mixing matrix that accommodates T2K results for a non-zero  $\theta_{13}$  while maintaining the successful  $A_4$  symmetry for that sector; this PRL paper was very well received. He also worked on one of the first models that contain a vector dark-matter candidate. I found that in approaching these projects, Dan was careful to understand the physics underlying the models involved; when calculations were needed, he was careful, thorough and reliable. In general he is very interested in the manifold extensions of the standard model, but he tempers this with a continuous concern with their phenomenological viability. On his well-chosen research topics (Dan did have a choice), his performance has been above expectations; in his last project he performed at the level of a postdoctoral fellow.

I have also interacted directly with Dan during courses and found him an excellent student. He was in my Statistical mechanics course, my Advance Quantum mechanics course and my General Relativity course, and in all occasions he received excellent grades; he was an active class participant and a curious and involved student.

In summary, Dan is smart and creative, his research performance is excellent and he has also been a very good graduate student, consistently performing beyond the expectations. I have every expectation that he will become a successful researcher and I recommend him to you very highly.

Sincerely,

José Wudka  
Professor of Physics