

January 17, 2013

University of Exeter
Physics & Astronomy
Stocker Road
Exeter, UK EX4 4QL

Dear Dr. Baraffe,

I am applying for the postdoctoral position at the University of Exeter with the listing number P44453/P44454 as posted on the AAS Job Register. I am currently a PhD candidate at the University of Chicago in the Department of Astronomy & Astrophysics, and I will be graduating this upcoming summer quarter.

I currently use numerical simulations to study dynamo action in magnetized Taylor Couette flow in a set up similar to the liquid metal Princeton MRI experiment. These calculations are applicable to accretion disks in AGN, binaries, or protoplanetary systems. We use Nek5000, which is a high order spectral element code to perform the simulations. I am interested in continuing to make the connection between astronomy and plasma experiments through numerical calculations.

I have attached a cover letter, a statement of my current research, a CV, and a list of publications. If you have any other questions, please email me anytime. I look forward to hearing from you.

Sincerely,

Krista L. Martocci