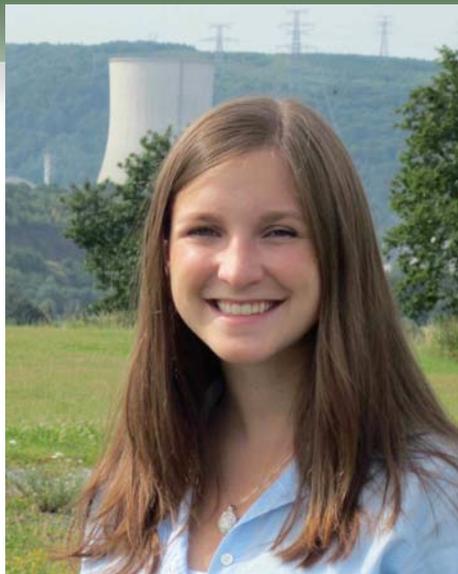


Claire Kathryn Thomas



Graduate Institution: UC Berkeley

Location: Berkeley, California

Graduate Discipline: Physics

Hometown: Baton Rouge, Louisiana

Research Interests:

I have research experience in both solid-state and particle physics, and I would be interested in continuing research in either field. In my solid-state lab I studied monolayer graphene, a two-dimensional carbon material whose electronic band structure gives rise to massless charge-carriers. I'm especially motivated by the prospect of technical application of the material. In particle physics my work is on a neutrino oscillation experiment called Double Chooz. I find this work especially exciting because neutrino oscillation implies that neutrinos have mass, making it the first evidence of physics beyond the standard model.

Though I find both of those fields interesting, I'm also curious about the properties of Bose-Einstein condensates. In my first year of graduate school I would like to work in an Atomic, Molecular and Optics lab studying spin domain formation and dynamics in a condensate.

About me:

I am currently working on Double Chooz, a reactor antineutrino experiment located in Chooz, France. I am living across the boarder in Belgium, and working on the reactor site. It is in an exciting time to be on site, as we are very close to first data. In early July I will help fill the detector with the liquid necessary for sensitivity to the antineutrino events. The experiment is located in the Champagne-Ardennes region of France, so in my spare time I can go rock climbing, hiking and kayaking nearby.



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