Lee Teng Summer Intern Mentor Volunteer Form

Name of mentor: **Dr. Brahim Mustapha**

Name of administrative assistant for mentor: Janet Bergman

Argonne division: Physics

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**Project description**:

We have recently developed a preliminary linear accelerator (linac) for an accelerator driven system (ADS) for the transmutation of nuclear waste produced by reactors. The prospective student will contribute to the finalization of the design which should be a good learning experience for him or her. The work will involve the final design optimization of RF cavities, the linac lattice design and finishing with beam dynamics simulations of the linac for different beam currents.

**List any skills a student might have that are of particular interest:**

Basic knowledge of accelerator physics

Computing and analytical skills

**List any special safety training needs you would have for your intern:**

Most of the tasks are computational and will be performed in an office environment; minimal safety training will be required.