

**XVI Neutrino Telescopes Workshop
Palazzo Franchetti - Venice, 2-6 March 2015**

Poster Session – Submission of Abstract

Submitter: Joao Coelho, Tufts University, joao.coelho@tufts.edu

Author: Joao Coelho

Title of the Poster: CHIPS R&D: Designing a low-cost Water-Cherenkov detector

Abstract Text:

The discovery of a relatively large θ_{13} mixing angle has spurred significant interest in exploring CP asymmetry in the lepton sector. Well known degeneracies involving CP violation in long-baseline experiments are most effectively addressed by measurements in multiple baselines and energies. The CHIPS R&D project is searching for low-cost solutions to build a large Water-Cherenkov detector that will provide complementary neutrino oscillation measurements in both the existing NuMI beam and the proposed beam to a Long-Baseline Neutrino Facility in the US. The latest developments in the CHIPS project will be presented, including results from the CHIPS-M prototype detector deployed in the beginning of August in Northern Minnesota. Deployment of a 10 kt detector is planned for the next two years with observation of electron neutrino appearance by late 2017.

Summary: (no longer than 400 characters. Insert a tag, key word, topic, etc.)

Kindly follow the instructions above and send the abstract in a .pdf file to the local organizing committee e-mail address by January 30th.

Response will be sent to the submitter's e-mail address indicated above, by February 10th.

Posters will be exhibited all week long at the workshop site. Discussion will take place on Thursday 5th, during the Poster Party. At least one author must be available for "question-answer" time.

Best 3 posters will be awarded on Friday 6th, during the closing plenary session of the workshop.