

# NuInt12 : Eighth International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region



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## **CONNIE: Coherent Neutrino-Nucleus Interaction Experiment**

*Thursday, 25 October 2012 18:00 (1h 30m)*

This is a new experiment intended to detect very low energy neutrinos coming from a nuclear reactor using CCDs (Charge Coupled Devices). These silicon detectors have very low energy threshold ( $\sim 7\text{eV RMS}$ ) and very good spatial resolution ( $\sim 15\mu\text{m}$ ). Also, nowadays, it is possible to fabricate very thick CCDs ( $\sim 250\mu\text{m}$ ) increasing the detecting mass to 1g. All these characteristics make them a perfect candidate for detecting low energy neutrinos by coherent elastic neutrino-nucleus scattering. The experiment is going to be running at Angra Nuclear Power Plant in Brazil since 2013.

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**Session Classification:** Happy hour with posters

**Track Classification:** Happy hour with posters