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## Recent Results from the KamLAND-Zen Experiment

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The decade-old KamLAND neutrino detector entered a new phase two years ago, with the goal of studying neutrinoless double beta decay in  $^{136}$  Xe. To achieve this goal, the detector was augmented with a small balloon at the center of the detector, filled with liquid scintillator loaded with about 400\,kg of 91\% enriched  $^{136}$  Xe. The KamLAND-Zen collaboration recently reported on new neutrinoless double beta decay search results with an exposure of 89.5\,kg-yr to this  $^{136}$  Xe target. These findings, together with results reported by EXO-200, allow to perform the most stringent test to date on the claimed observation of  $0\nu2\beta$  in  $^{76}$  Ge. An unanticipated background, most likely due to  $^{110m}$  Ag, limited KamLAND-Zen's ability to further study  $0\nu2\beta$  and the collaboration embarked on a purification campaign to reduce this background. I will describe our latest  $0\nu2\beta$  and  $2\nu2\beta$  results, give a status of the detector and provide an outlook for the future of KamLAND-Zen.

Primary author: DECOWSKI, M. Patrick (University of Amsterdam / Nikhef)

Presenter: DECOWSKI, M. Patrick (University of Amsterdam / Nikhef)Session Classification: Double Beta Decay/ Neutrino Mass III

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