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Abstract for an Invited Paper for the DNP08 Meeting of the American Physical Society

Review of double beta decay experiments ANDREA POCAR, Stanford University

Neutrinoless double beta decay is being investigated by experiments in underground laboratories around the world employing different candidate isotopes. I present a summary of the current status and sensitivities of such searches and describe the most promising next generation experiments under way which are designed to reach Majorana neutrino mass sensitivities of a few tens meV.