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## Search for Neutrinoless Double-Beta Decay of $^{100}\text{Mo}$ with the NEMO-3 Detector

We report the results of a search for the neutrinoless double-beta decay ( $0\nu\beta\beta$ ) of  $^{100}\text{Mo}$ , using the NEMO-3 detector to reconstruct the full topology of the final state events. With an exposure of 34.7 kg.y, no evidence for the  $0\nu\beta\beta$  signal has been found, yielding a limit for the light Majorana neutrino mass mechanism of  $T_{1/2}^{0\nu\beta\beta} > 1.1 \times 10^{24}$  years (90% C.L.) once both statistical and systematic uncertainties are taken into account. Depending on the Nuclear Matrix Elements this corresponds to an upper limit on the Majorana effective neutrino mass of  $m_{\nu} < 0.3\text{--}0.9\text{ eV}$  (90% C.L.). Constraints on other lepton number violating mechanisms of  $0\nu\beta\beta$  decays are also given. Searching for high-energy double electron events in all suitable sources of the detector, no event in the energy region [3.2-10] MeV is observed for an exposure of 47 kg.y.

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