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light detection with SiPM in nEXO experiment

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The nEXO collaboration is designing a 5-tonne xenon time projection chamber (TPC) using enriched Xe-136 isotope to search for neutrinoless double beta decays. Both the light and charge signals from interactions in the TPC will be collected. The light signals are planned to be detected with silicon photomultipliers (SiPMs). Comprehensive efforts have been made on SiPM performance characterization, reflectivity measurement and other R&D work. In this talk, I will present the latest status and progress from these work.

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