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Status of NEWAGE: direction-sensitive dark matter search with low background micro-pattern gaseous TPC

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The sensitivity of the direct dark matter search is being improved by various energy-sensitive experiments such as XENONnT, LZ, Panda-X and so on. In parallel, direction-sensitive dark matter searches are designed and taken place to reveal properties of the dark matter particle after its discovery or to explore beyond the neutrino fog. NEWAGE is one of the direction-sensitive WIMP search experiments using three-dimensional tracking gaseous TPC, placed in the Kamioka underground observatory. Recently we developed low RI emission micro pattern gas detector. The new detector was installed in the Kamioka underground observatory and the final commissioning was started from the end of 2023. We will present the status of the underground dark matter search and its prospects.

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