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First physics run of the WAGASCI-BabyMIND detector with full setup

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WAGASCI-BabyMIND is a set of new neutrino detectors to measure the neutrino cross-section with the T2K neutrino beam. It is composed of neutrino detectors made of water and scintillator surrounded by muon range detectors made of iron and scintillator. The downstream muon range detector is magnetized to discriminate the charge of the muons. It is located in the same building as ND280 but at the different off-axis angle from ND280. The WAGASCI experiment has just completed in summer 2018 its commissioning run with a reduced setup. The next physics run with the full setup is scheduled to start at the end of May 2019 and will last approximately a month. More physics runs are scheduled later this year and in the next years. In this talk, we will present the preliminary results of the first full setup run and the future prospect of the neutrino cross section measurement with the WAGASCI-BabyMIND detector.

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