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Sensitivity of the 5-station Configuration of ARA

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The Askaryan Radio Array (ARA) is an experiment looking for the Askaryan emission of GZK neutrinos interacting in the Antarctic ice. During the last Antarctic summer, two new stations have been added to the experiment, as well as a prototype version of the phased array, attached to one of the new stations. With these stations, ARA sensitivity should become comparable to IceCube's. To confirm this, it is calculated through new simulations developed in the IceCube framework, with an antenna model built from in-situ calibration measurements.

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