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## End to end calibration of the ARA detector

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Coherent Cherenkov radio emissions from particle cascades were predicted by Askaryan, and the emissions were firstly detected at SLAC from the electro-magnetic cascades. Askaryan Radio Array (ARA) is being built at the South Pole to observe cosmogenic neutrinos by detecting the coherent radio emissions with the large instrumental area of about  $100 \text{ km}^2$ . We are planning an end to end calibration of the ARA detectors by using a LINAC installed at the Telescope Array experiment site. The detail of the calibration and the current status will be presented.

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