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Ion Source and Front End Commissioning at the Facility for Rare Isotope Beams

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The installation and testing of the commissioning 14.5 GHz ECR ion source ARTEMIS at the Facility for Rare Isotope Beams (FRIB) was completed in the fall of 2016. The ion source is providing beam to the FRIB Front End and will be used throughout the commissioning of the linac accelerator. The paper reviews the first commissioning result and beam measurements with Argon and Krypton beams obtained in the low energy beamline (LEBT) of FRIB. Plans for early operations with the ion source are being developed and are focused on developing a base of solid beams and minimizing background contaminants.

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