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## **Status Update of the ATLAS ECR Ion Sources at Argonne National Laboratory**

The Argonne Tandem Linac Accelerator System (ATLAS) at Argonne National Laboratory typically operates 24 /7 with weekly ion beam changes and an annual 1 month maintenance period. Due to recent installations and upgrades at ATLAS, user demands for new beams and higher intensities have expanded an already diverse operational envelope of both electron cyclotron resonance ion sources (ECRIS), ECR2 and ECR3. A variety of material introduction techniques including sputter, oven, reduction and gas feed were used to meet the challenge of an intense run schedule. With two ECRIS available to feed the accelerator, beam development and preparation were able to occur concurrently with ATLAS programmatic activities. Highlights of operational experiences and improvements with ECR2 and ECR3 over the last 2 years are presented.

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### **Email Address**

rscott@anl.gov

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### **Presenter if not the submitter of this abstract**

**Primary author:** SCOTT, Robert (Argonne National Laboratory)

**Co-authors:** MCLAIN, Jake (Argonne National Laboratory); VONDRASEK, Richard (Argonne National Laboratory)

**Presenter:** SCOTT, Robert (Argonne National Laboratory)

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