

# International Workshop on Breakdown Science and High Gradient Technology (HG2021)

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## High Efficiency, Low Cost, RF Sources for Accelerators and Colliders

*Tuesday, 20 April 2021 13:45 (15 minutes)*

Calabazas Creek Research, Inc. (CCR) is investigating technologies advancing the state of the art in RF source technology. These technologies are focused on increasing performance and reducing cost of sources from 300 MHz to X-Band at power levels from 100 kW to 10 MW. Traditional devices are being redesigned to add capabilities and performance previously not available. These include multiple beam triodes-based sources, ultra-high efficiency klystrons, multiple beam IOTs, and phase and frequency controlled magnetrons. The performance goals include efficiencies exceeding 80% and costs as low as \$.50/Watt. This presentation will review progress on these developments, including available test results.

### Summary

**Presenter:** IVES, R. Lawrence (Calabazas Creek Research, Inc.)

**Session Classification:** Session 5