## **International Workshop on Future Linear Colliders**



Contribution ID: 67

Type: Early Career (Eligible for Oral or Poster)

## Development of a Compact Periodic Permanent Magnet Focused C-Band Klystron

Wednesday, 17 May 2023 13:50 (20 minutes)

A C-band klystron is being developed to provide power to a fully integrated compact linear accelerator system. The design of this high-power RF source was centered on minimizing weight and volume. In doing so, a novel periodic permanent magnet focusing circuit was developed alongside a compact RF circuit to achieve > 50% efficiency in simulation. Fabrication of this system is underway and high-power tests will be performed.

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Session Classification: Accelerator: Normal Conducting RF

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