

# C-band RF system for the SAPS test bench

*Monday 26 August 2024 16:00 (2 hours)*

This work describes a C-band RF system for the SAPS (Southern Advanced Photon Source of China) test bench linear accelerator. SAPS' RF testing system comprises of a photocathode electron gun and a 2-metre-long equal gradient acceleration device. The klystron power source delivers energy to the photocathode electron gun and the travelling wave acceleration structure, respectively. Test the photocathode electron gun first, followed by the travelling wave acceleration structure. We investigated a short-pulse C-band spherical pulse compressor. The photocathode electron gun's preliminary high-power testing is now complete.

## Footnotes

## Funding Agency

**Primary author:** ZHANG, Hui (Dongguan Neutron Science Center)

**Co-authors:** WANG, Bo (Institute of High Energy Physics); WANG, Hexin (Institute of High Energy Physics); RONG, Lin (Chinese Academy of Sciences); WAN, Ma (Institute of High Energy Physics); JIANG, Shimin (Institute of High Energy Physics); XIE, Zhe (Institute of High Energy Physics); MU, Zhencheng (Institute of High Energy Physics)

**Presenter:** ZHANG, Hui (Dongguan Neutron Science Center)

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