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Development and commissioning of RadiaBeam ICS source

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We report on the development, commissioning, and the first light from RadiaBeam Inverse Compton Scattering (ICS) source. This ICS source is driven by the C-band hybrid photoinjector, and 100 MeV high gradient C-band linac. The first light at 200 keV photon energy was detected and characterized. The machine modular design allows for multiple future upgrades, including energy upgrade, as well as a transition to the pulse train regime operations to enhance average power. However, this paper is mostly focused on the initial experimental results in a single shot regime, with the focus on the machine tunability, performance, and applications.

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