

Development of the JINR CSA-1 charge-sensitive preamplifier and comparison with the CANBERRA model 2018EB preamplifier in terms of its main characteristics.

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A JINR CSE-1 charge-sensitive preamplifier was developed at VBLHEP JINR to process signals from a semiconductor detector in the spectrometric pathway. The principle of the device calibration is described and the calibration data of the preamplifier in terms of charge sensitivity and noise are presented, a comparative analysis of the device with the charge-sensitive preamplifier CANBERRA Model 2018EB is performed.

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