Erratum: Design Consideration of 650-MHz Circular Electron–Positron Collider Klystron and Simulation of Its Beam Tester [Chin. Phys. Lett. 34 (2017) 012902]

Un-Nisa Zaib[1,2,3**], Shigeki Fukuda[1,4], Zu-Sheng Zhou(周祖圣)[1,3], Dong Dong(董东)[1,3], Sheng-Chang Wang(王盛昌)[1,3], Ou-Zheng Xiao(肖欧正)[1,3], Zhi-Jun Lu(陆志军)[1,2,3], Guo-Xi Pei(裴国玺)[1,3]

[1]*Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100049*
[2]*University of Chinese Academy of Sciences, Beijing 100049*
[3]*Key Laboratory of Particle Acceleration Physics and Technology, Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100049*
[4]*High Energy Accelerator Research Organization, KEK, Oho, Ibaraki 305-0801, Japan*

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We found an error in our previous report [Chin. Phys. Lett. 34 (2017) 012902] concerning about the value of voltage on the modulating anode (MA). This mistake occurs when we shifted calculating positive scale to actual negative voltage scale in the DGUN simulation. The value of voltage on the MA is $V_{\rm MA} = -33.5\,$kV as displayed in Table 1. Also Figs. 2(a), 2(b) and 4(a) should be as follows. We note that the error does not affect the conclusion of our report at all, and we apologize for inconvenience of readers brought by our oversight.

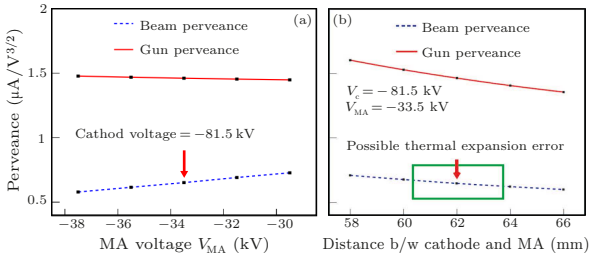

Fig. 2. The perveance with a function of an MA voltage. If the manufactured gun has different performances, it is possible to get the design value by slight change of MA voltage (a), the relation between the perveance and the MA distance from the cathode (b).

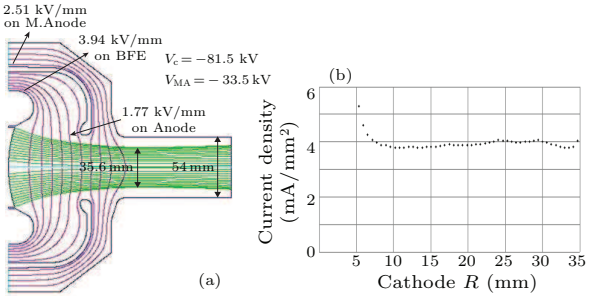

Fig. 4. Simulation results for the MA gun of 800 kW CEPC klystron: (a) the beam trajectory and maximum electric field on electrode, (b) the current density on cathode.

**Corresponding author. Email: zaib@ihep.ac.cn
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