The following queries have arisen during the typesetting of your manuscript. Please answer these queries by marking the required corrections at the appropriate point in the text.

1 Please verify listing.

The listing is correct.

2 Please define TTL

TTL stands for Transistor-Transistor Logic. Since the acronym only appears once on Page 8, Line 474, the sentence can be rephrased without the acronym: "The bias shutdown mode of the ORTEC 660 is set to transistor-transistor logic to be compatible with the iPA high-voltage inhibit mode."

3 Please verify Ref. [15].

It is correct in the proof.

4 Please provide publishing information in Refs. [26-29,32,33,47,52,53,97,99-105,107-111,114,117,118,124,138,149].

The only available information for these references is website links, all of which have been removed in the proof.

For example, Ref. [107] ORTEC 660 Dual 5-kV Bias Supply.

https://www.ortec-online.com/products/electronic-instruments/nim-power-supplies-and-bins/660

This website provides specifications from the manufacturer and is the only publicly available information regarding this reference.

5 Please verify Ref. [139].

It is correct in the proof.

6 Please update Ref. [150].

Ref. [150] remains a work in progress and has not yet been published.

FQ This funding provider could not be uniquely identified during our search of the FundRef registry (or no Contract or Grant number was detected). Please check information and amend if incomplete or incorrect.

The U.S. Department of Energy, Office of Science, Awards No. DE-SC0016052 and No. DE-SC0023529. The information in the proof is already correct and complete.

Other responses:

Page 3, line 171-174

The 59Cu beam of 2×10^4 pps mentioned in (2) was initially proposed, which should be 9×10^3 pps based on recent experimental data analysis.

Page 3, Line 215

Page 6, Table III

Page 14, Line 813

All values of 14161(15) should be 14160(15).

The 14160(15) in Fig. 2 is already correct in the proof.

Page 5, Line 296

There should be a space between the value and the unit in "12MeV".