## Check for updates

## OPEN ACCESS

EDITED AND REVIEWED BY Tsuyoshi Tajima, Los Alamos National Laboratory (DOE), United States

\*CORRESPONDENCE Maria lavarone, ⊠ iavarone@temple.edu

RECEIVED 15 March 2024 ACCEPTED 22 March 2024 PUBLISHED 03 April 2024

#### CITATION

Lechner EM, Oli BD, Makita J, Ciovati G, Gurevich A and lavarone M (2024), Corrigendum: Characterization of dissipative regions of a N-doped superconducting radiofrequency cavity. *Front. Electron. Mater.* 4:1401752. doi: 10.3389/femat.2024.1401752

### COPYRIGHT

© 2024 Lechner, Oli, Makita, Ciovati, Gurevich and lavarone. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

# Corrigendum: Characterization of dissipative regions of a N-doped superconducting radio-frequency cavity

# Eric M. Lechner<sup>1,2</sup>, Basu Dev Oli<sup>1</sup>, Junki Makita<sup>3</sup>, Gianluigi Ciovati<sup>2,3</sup>, Alex Gurevich<sup>3</sup> and Maria lavarone<sup>1\*</sup>

<sup>1</sup>Department of Physics, Temple University, Philadelphia, PA, United States, <sup>2</sup>Thomas Jefferson National Accelerator Facility, Newport News, VA, United States, <sup>3</sup>Center for Accelerator Science, Department of Physics, Old Dominion University, Norfolk, VA, United States

### KEYWORDS

superconductivity, superconducting RF cavities, electron tunneling, microscopy, resonator, niobium

## A Corrigendum on

Characterization of dissipative regions of a N-doped superconducting radio-frequency cavity

by Lechner EM, Oli BD, Makita J, Ciovati G, Gurevich A and Iavarone M (2023). Front. Electron. Mater. 3:1235918. doi: 10.3389/femat.2023.1235918

In the published article, Equation 1 was reported incorrectly.

A correction has been made to **XPS and SEM analysis**, *3.1 XPS analysis*, Paragraph 8. The equation previously read:

 ${}^{``}d_{i} = \lambda_{i} \cos \theta \ln \left(1 + \frac{n_{u}\lambda_{u}}{n_{i}\lambda_{i}} \frac{F_{i}}{F_{u}}\right) T_{2}T_{3} \dots T_{i-1}.$ " The correct equation is:

$$d_i = \lambda_i \cos \theta \ln \left( 1 + \frac{n_u \lambda_u}{n_i \lambda_i} \frac{F_i}{F_u} T_2 T_3 \dots T_{i-1} \right)$$
(1)

The equation used for the analysis was the correct one and does not change the scientific conclusions of the article in any way. We apologize for this error. The original article has been updated.

# Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.