

ERRATUM • OPEN ACCESS

Erratum: Design and sensitivity of the Radio Neutrino Observatory in Greenland (RNO-G)

To cite this article: J.A. Aguilar *et al* 2023 *JINST* **18** E03001

View the [article online](#) for updates and enhancements.

You may also like

- [Erratum: "Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data" \(2019, ApJ, 879, 10\)](#)
B. P. Abbott, R. Abbott, T. D. Abbott *et al.*
- [Erratum: "First Search for Gravitational Waves from Known Pulsars with Advanced LIGO" \(2017, ApJ, 839, 12\)](#)
B. P. Abbott, R. Abbott, T. D. Abbott *et al.*
- [Identification of hadronic tau lepton decays using a deep neural network](#)
A. Tumasyan, W. Adam, J.W. Andrejkovic *et al.*



PRIME
PACIFIC RIM MEETING
ON ELECTROCHEMICAL
AND SOLID STATE SCIENCE

HONOLULU, HI
Oct 6–11, 2024

Abstract submission deadline:
April 12, 2024

Learn more and submit!



Joint Meeting of

The Electrochemical Society
•
The Electrochemical Society of Japan
•
Korea Electrochemical Society

Erratum: Design and sensitivity of the Radio Neutrino Observatory in Greenland (RNO-G)

J.A. Aguilar,¹ P. Allison,² J.J. Beatty,² H. Bernhoff,³ D. Besson,^{4,5} N. Bingefors,⁶ O. Botner,⁶ S. Buitink,⁷ K. Carter,⁸ B.A. Clark,⁹ A. Connolly,² P. Dasgupta,¹ S. de Kockere,¹⁰ K.D. de Vries,¹⁰ C. Deaconu,¹¹ M.A. DuVernois,¹² N. Feigl,¹³ D. García-Fernández,^{13,14} C. Glaser,⁶ A. Hallgren,⁶ S. Hallmann,¹⁴ J.C. Hanson,¹⁵ B. Hendricks,¹⁷ B. Hokanson-Fasig,¹² C. Hornhuber,⁴ K. Hughes,¹¹ A. Karle,¹² J.L. Kelley,¹² S.R. Klein,¹⁶ R. Krebs,¹⁷ R. Lahmann,¹³ M. Magnuson,⁴ T. Meures,¹² Z.S. Meyers,^{13,14} A. Nelles,^{14,13,*} A. Novikov,⁴ E. Oberla,¹¹ B. Oeyen,¹⁸ H. Pandya,⁷ I. Plaisier,^{13,14} L. Pyras,^{19,14} D. Ryckbosch,¹⁸ O. Scholten,¹⁰ D. Seckel,²⁰ D. Smith,¹¹ D. Southall,¹¹ J. Torres,² S. Toscano,¹ D.J. Van Den Broeck,^{10,7} N. van Eijndhoven,¹⁰ A.G. Vieregge,¹¹ C. Welling,^{13,14} S. Wissel,^{17,8} R. Young⁴ and A. Zink¹³

¹Université Libre de Bruxelles, Science Faculty CP230, B-1050 Brussels, Belgium

²Dept. of Physics, Center for Cosmology and AstroParticle Physics, Ohio State University, Columbus, OH 43210, U.S.A.

³Uppsala University, Dept. of Engineering Sciences, Division of Electricity, Uppsala, SE-752 37, Sweden

⁴University of Kansas, Dept. of Physics and Astronomy, Lawrence, KS 66045, U.S.A.

⁵National Nuclear Research University MEPhI, Kashirskoe Shosse 31, 115409, Moscow, Russia

⁶Uppsala University, Dept. of Physics and Astronomy, Uppsala, SE-752 37, Sweden

⁷Vrije Universiteit Brussel, Astrophysical Institute, Pleinlaan 2, 1050 Brussels, Belgium

⁸Physics Dept. California Polytechnic State University, San Luis Obispo, CA 93407, U.S.A.

⁹Dept. of Physics and Astronomy, Michigan State University, East Lansing, MI 48824, U.S.A.

¹⁰Vrije Universiteit Brussel, Dienst ELEM, B-1050 Brussels, Belgium

¹¹Dept. of Physics, Enrico Fermi Inst., Kavli Inst. for Cosmological Physics, University of Chicago, Chicago, IL 60637, U.S.A.

¹²Wisconsin IceCube Particle Astrophysics Center (WIPAC) and Dept. of Physics, University of Wisconsin-Madison, Madison, WI 53703, U.S.A.

¹³Erlangen Center for Astroparticle Physics (ECAP), Friedrich-Alexander-University Erlangen-Nuremberg, 91058 Erlangen, Germany

¹⁴DESY, Platanenallee 6, 15738 Zeuthen, Germany

¹⁵Whittier College, Whittier, CA 90602, U.S.A.

¹⁶Lawrence Berkeley National Laboratory, Berkeley, CA 94720, U.S.A.

¹⁷Dept. of Physics, Dept. of Astronomy & Astrophysics, Penn State University, University Park, PA 16801, U.S.A.

*Corresponding author.



¹⁸*Ghent University, Dept. of Physics and Astronomy, B-9000 Gent, Belgium*

¹⁹*Humboldt-Universität zu Berlin, Unter den Linden 6, 10117 Berlin, Germany*

²⁰*Dept. of Physics and Astronomy, University of Delaware, Newark, DE 19716, U.S.A.*

E-mail: anna.nelles@desy.de

ERRATUM TO: [2021 JINST 16 P03025](#)

The previously published figure 26 is replaced, which corrects a plotting mistake affecting only this figure. The underlying simulations of the RNO-G design specifications used for the article have not changed. Data corresponding to the new figure is available at [1].

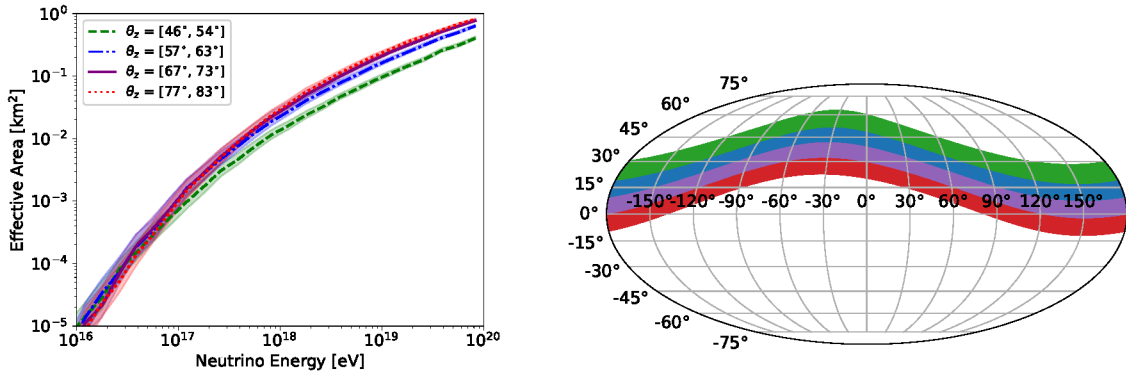


Figure 26. RNO-G instantaneous sky coverage. Left: simulated effective area as a function of neutrino energy is shown for four zenith bands, centered at 50°, 60°, 70°, and 80°. Shaded regions indicate the range given by different trigger of $1.5\sigma_{\text{noise}}$ and $2.5\sigma_{\text{noise}}$. Simulations were performed for the full RNO-G array of 35 stations with a distance of 1 km. Right: these bands are projected in Right Ascension (RA) and Declination (Dec) for one particular time of day to illustrate the instantaneous sky coverage. For zenith angles $< 45^\circ$ or $> 90^\circ$ RNO-G sensitivity is strongly reduced (< 0.1 fraction of maximum effective area).

Acknowledgments

The RNO-G collaboration would like to thank their members Steffen Hallmann and Felix Schlüter for identifying the issue with the figure and correcting it.

References

- [1] RNO-G collaboration, *Public data repository*, (2023)
https://github.com/RNO-G/rno-g_public_data.