Paper Title (Use Title Case, up to Two Lines)

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***Abstract*—This document is the paper template for the QCrypto Africa 2027 Summit and Research Symposium. Use it to prepare full papers, short papers and symposium papers. Replace this text with an abstract of up to 250 words that states the problem, the method, the main results and their significance. Do not use symbols, special characters, footnotes or citations in the abstract.**

***Keywords*—post-quantum cryptography, quantum computing, PKI, cloud encryption (three to five keywords)**

I. Introduction

This template sets the layout used for all papers in the Proceedings of QCrypto Africa 2027 Summit, so that every paper in the volume looks the same. Type your paper directly into this file, or paste your text in and apply the matching styles. Keep the margins, column widths, fonts and spacing exactly as they are.

Full papers are 6 to 10 pages, short papers 4 to 5 pages and symposium papers 4 to 8 pages, including figures, tables and references. Papers that exceed the page limit or change the layout may be returned without review.

II. Preparing Your Paper

A. Page Layout

Use A4 paper with a single-column title block followed by two columns. Each column is 88.9 mm wide with 4.22 mm between them. The top margin is 19 mm, the bottom margin 43 mm and the side margins 14.32 mm. Do not add page numbers, headers or footers of your own; the editors add these when the proceedings are compiled.

B. Fonts and Spacing

Use Times New Roman throughout. The title is 24 pt, author names 11 pt, body text 10 pt, and the abstract, keywords, captions and references 8 to 9 pt. Justify body text and indent the first line of each paragraph.

C. Headings

Number main headings with Roman numerals in small capitals, centred (for example, I. Introduction). Number subheadings with capital letters in italics, aligned left (for example, A. Page Layout). Use no more than three levels of heading.

III. Equations, Figures and Tables

A. Equations

Number equations consecutively in parentheses at the right margin. Use the equation editor in Word, define every symbol, and refer to equations as (1), not Eq. (1). For example, the security level of a scheme against a quantum adversary running Grover's algorithm [3] on a key of n bits is about

$$\lambda \approx n / 2. \tag{1}$$

B. Figures and Tables

Place figures and tables at the top or bottom of a column. Number tables with Roman numerals and put the caption above the table, as in Table I. Number figures with Arabic numerals and put the caption below the figure, as in Fig. 1. Use readable fonts of at least 8 pt inside figures and supply images at 300 dpi or higher.

Table I. NIST Post-Quantum Standards [4]–[6]

Algorithm	Type	FIPS standard
ML-KEM	Key encapsulation	FIPS 203
ML-DSA	Digital signature	FIPS 204
SLH-DSA	Hash-based signature	FIPS 205

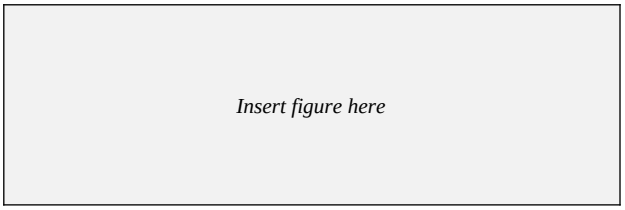


Fig. 1. Example figure caption. Captions end with a full stop.

IV. Peer Review and Submission

All papers are double-blind peer reviewed by at least two reviewers. For the review version, replace author names, affiliations and email addresses with placeholders, remove the acknowledgment, and refer to your own earlier work in the third person. Restore the author details only in the camera-ready version after acceptance.

Submit your paper as a PDF through the QCrypto Africa website. At least one author of each accepted paper must register by the camera-ready deadline for the paper to appear in the proceedings.

V. Conclusion

Summarise the contribution of the paper and its relevance to Africa, and note any limitations and future work. Do not repeat the abstract.

Acknowledgment

Optional. Thank funders and colleagues here in the camera-ready version only. Remove this section for review.

References

Cite references in square brackets in the order they appear, for example [1], and list them below in IEEE style. Include the DOI where one exists.

[1] P. W. Shor, “Polynomial-time algorithms for prime factorization and discrete logarithms on a quantum computer,” *SIAM J. Comput.*, vol. 26, no. 5, pp. 1484–1509, 1997.

[2] A. Author, B. Author, and C. Author, “Title of the paper,” in *Proc. Name of Conference*, City, Country, Year, pp. xx–yy, doi: xx.xxxx/xxxxx.

[3] L. K. Grover, “A fast quantum mechanical algorithm for database search,” in *Proc. 28th Annu. ACM Symp. Theory of Computing*, 1996, pp. 212–219.

[4] National Institute of Standards and Technology, “Module-lattice-based key-encapsulation mechanism standard,” FIPS 203, Aug. 2024.

[5] National Institute of Standards and Technology, “Module-lattice-based digital signature standard,” FIPS 204, Aug. 2024.

[6] National Institute of Standards and Technology, “Stateless hash-based digital signature standard,” FIPS 205, Aug. 2024.