I, Jintai Ding, of <u>8770 Wellerstation Drive</u>, <u>OH USA 45249</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; **OR** (check one or both of the following):
- □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, may be covered by the following U.S. and/or foreign patents: <u>None</u>;
- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: <u>None</u>.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed:

Title: Professor

Date: May 28, 2023

Place: Beijing

I, Boru Gong, of <u>QFA Lab, CCB Fintech, No. 99, Yincheng Road, Pudong New District, Shanghai, China</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
- □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV, may be covered by the following U.S. and/or foreign patents: None;
- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: None.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed:

de Bora Gong

Title: Dr.

Date: May 25, 2023

Place: Shanghai, China

I, <u>Hao Guo</u>, of <u>Tsinghua University, No. 30, Shuangqing Road, Haidian District, Beijing, China</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
- □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, may be covered by the following U.S. and/or foreign patents: <u>None</u>;
- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: <u>None</u>.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed: Hao Guo

Title: PhD candidate Date: May 25, 2023 Place: Beijing, China

I, Xiaoou He, of QFA Lab, CCB Fintech, No. 99, Yincheng Road, Pudong New District, Shanghai, China, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
- □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV, may be covered by the following U.S. and/or foreign patents: None;
- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: <u>None</u>.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed: Xiaoon He

Title: Dr.

Date: May 25, 2023 Place: Shanghai, China

I, <u>Yi Jin</u>, of <u>OFA Lab, CCB Fintech, No. 99, Yincheng Road, Pudong New District, Shanghai, China</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
- □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, may be covered by the following U.S. and/or foreign patents: <u>None</u>;
- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: None.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed: Yi Jin

Title: Ms.

Date: May 25, 2023

Place: Shanghai, China

I, <u>Yuansheng Pan</u>, of <u>OFA Lab, CCB Fintech, No. 99, Yincheng Road, Pudong New District, Shanghai, China</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
- □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV, may be covered by the following U.S. and/or foreign patents: None;
- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: <u>None</u>.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed: Yuansheng Pan

Title: Mr.

Date: May 25, 2023
Place: Shanghai, China

I, Dieter Schmidt, of Department of Computer Science, University of Cincinnati, Cincinnati, Ohio, USA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
- □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV, may be covered by the following U.S. and/or foreign patents: None;
- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: <u>None</u>.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed: Dietor Schmidt

Title: Professor Emeritus

Date: 5-28-2023

Place: Springboro, Ohio, USA

i, chengdong Towi No.544. Hefangkou Village, Hew Bei Town, Huairou, Beijing, China do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
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- to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: None.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed: Chengdong Tao

Title: Pr.

Date: May 26, 2023
riace: No. 544, Hefangkou, Huairou, Beijing 101408

I, <u>Danli Xie</u>, of <u>QFA Lab, CCB Fintech, No. 99, Yincheng Road, Pudong New District, Shanghai, China</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
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- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: <u>None</u>.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed:

Danli Xie

Title: Mr.

Date: May 25, 2023 Place: Shanghai,China

I, <u>Bo-Yin Yang</u>, of <u>Academia Sinica (128 Section 2 Academia Road, Institute of Information Science, Taipei 115201, Taiwan)</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☑ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
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- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: <u>None</u>.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed:

Title: Research Fellow

Date: 2023.05.29

Place: Academia Sinica (128 Section 2 Academia Road, Institute of Information Science,

Taipei 115201, Taiwan)

I, Ziyu Zhao, of <u>Tsinghua University, No. 30, Shuangqing Road, Haidian District, Beijing, China</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>TUOV</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- ☼ I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as TUOV; OR (check one or both of the following):
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- □ to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: None.

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I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

Signed: Ziyu Zhao

Title: PhD candidate Date: May 25, 2023 Place: Beijing, China

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

I, Ziyu Zhao, Tsinghua University, No. 30, Shuangqing Road, Haidian District, Beijing, China, am the owner or authorized representative of the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: Zigu Zhao Title: PhD candidate

Date: May 25

Place: Beijing, China