I, Nicolas Aragon, of University of Limoges, 123 avenue Albert Thomas, 87060 Limoges Cedex, FRANCE, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE, 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 which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE; 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 (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
☐ I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)

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

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Nicolas Aragon

Title: Ph. D. Student

Date: April the 3rd, 2018

Place: Limoges

I, Edoardo Persichetti, of Florida Atlantic University, Department of Mathematical Sciences, 777 Glades Rd, Boca Raton 33431 FL, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

 \square I do not hold and do not intend to hold any patent or patent application with a claim

I further declare that (check one):

may cover the cryptosystem, reference implementation, or optimized nentations that I have submitted, known as BIKE; OR (check one or both of the ing):
to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable) ;
I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)

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made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Assistant Professor

Date: 11/27/17 Place: Boca Raton

I, Edoardo Persichetti, of Florida Atlantic University, Department of Mathematical Sciences, 777 Glades Rd, Boca Raton 33431, FL, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE, 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):

V	which	of hold and do not intend to hold any patent or patent application with a claim may cover the cryptosystem, reference implementation, or optimized nentations that I have submitted, known as (print name of system); 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 (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if
		applicable); I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)

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

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances

made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed:

Title: Assistant Professor

Date: 11/23/17

Place: Boca Raton, FL

I, PAULO SERGIO LICCIARDI MESSEDER BARRETO, of the Institute of Technology - University of Washington Tacoma - Campus Box 358426 - 1900 Commerce Street - Tacoma WA 98402-3100, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **BIKE** - **BIt-flipping Key Encapsulation**, 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):

 $\ensuremath{\underline{\lor}}$ I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as $\ensuremath{BIKE} - \ensuremath{BIt}$ -flipping Key Encapsulation; \ensuremath{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 (print name of
cryptosystem), may be covered by the following U.S. and/or foreign patents:
(describe and enumerate or state "none" if applicable);
I do hereby declare that, 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: (describe and enumerate
or state "none" if applicable)

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

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Bon To

Title: Prof. Dr., PhD

Date: 11/19/2017

Place: Tacoma, WA, USA

I, Slim Bettaieb, of Worldline, Zone Industrielle A, rue de la Pointe, 59113 Seclin, FRANCE, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE, 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 which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE; 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 BIKE, may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
☐ I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)

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

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Slim Bettaieb

Title: Research Engineer, Ph.D. Date: April the 3rd, 2018 Place: Seclin, France

I, Olivie Blazy of Vinerity of Limoges, 123 Av. Albert Thomas, 8700 do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE, 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 which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as $\beta t \in \mathcal{C}$; 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 (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
☐ I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)
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
I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.
I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.
Signed: Olivier Blogg Title: Assistant Brof Date: November 28, 2017 Place: Umages, France

I, Loïc Thierry Bidoux, of Worldline, Zone Industrielle A, rue de la Pointe, 59113 Seclin, FRANCE, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE, 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 which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE; 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 BIKE, may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
☐ I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)
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

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).

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Signed: Loïc Bidoux

Title: Research Engineer, Ph.D. Date: April the 3rd, 2018 Place: Seclin, France

I, Jean-Christophe Deneuville, of INSA-CVL, 88 boulevard Lahitolle, 18000 Bourges, FRANCE, and University of Limoges, 123 avenue Albert Thomas, 87060 Limoges Cedex, FRANCE, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE, 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 which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE; 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 (print nam of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)

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Signed: Jean-Christophe Deneuville

Title: Ph.D. post-doc Date: April the 3rd, 2018 Place: Bourges

I, Philipe ARSA To of Mivers to all mays, 123 w A Thomas 8700 Linear, for do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as 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):
\square I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as ; 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 (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable); $USUSUSUSUSUSUSUSUSUSUSUSUSUSUSUSUSUSUS$
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Signed: Title: Date: Place:

I, Carlos ACUILAR MELCHOR ENSETHT 2 rue Charles Come bl 31000 Toulouse do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I FRANCE have submitted, known as $BIXE$, 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):		
\square I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as ; 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 NKE (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable) US 3094189 B2 and FR 10/51190		
☐ I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)		
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		
I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.		
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Signed: Title: Associated Professor Date: Place: Nov, 2, 2017 Toulouse FRANCE		

I, RAFAEL MISOCZKI, of Intel Corporation, 2111 NE 25th Avenue, Hillsboro, Oregon, 97124, USA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE – Bit Flipping Key Encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

 \checkmark I do not hold and do not intend to hold any patent or patent application with a claim

I further declare that (check one):

imp	ch may cover the cryptosystem, reference implementation, or optimized ementations that I have submitted, known as BIKE – Bit Flipping Key apsulation; 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 (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if
1	applicable); \Box I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)

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

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances

made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Rulael Monay/4.

Signed: Rafael Misoczki

Title: Dr.

Date: Nov. 28, 2017

Place: Hillsboro, Oregon, USA

I, SHAY	GUERON of UNIVERSITY OF HAIFA, do
	that the cryptosystem, reference implementation, or optimized implementations
	mitted, known as BIKE cryptagastem, is my own original
	mitted jointly with others, is the original work of the joint submitters.
I further decla	re that (check one):
impler	not hold and do not intend to hold any patent or patent application with a claim may cover the cryptosystem, reference implementation, or optimized mentations that I have submitted, known as
	to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
	I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)

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

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate. fint

Signed:

Title:

Date: APRIL 14, 2018
Place: FORT LAUDERDALE

I. Tim Güneysu, of Ruhr-Universität Bochum, Universitätsstr. 150, 44780 Bochum, GERMANY. do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE – Bit Flipping Key Encapsulation, 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):

X I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE – Bit Flipping Key Encapsulation; 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 BIKE, may be covered by the following U.S. and/or foreign patents:
(describe and enumerate or state "none" if applicable);
I do hereby declare that, 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:
(describe and enumerate or state "none" if applicable)

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

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized

implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Tim Güneysu Title: Prof. Dr.-Ing. Date: Nov 23, 2017

Place: Bochum, Germany

I, Nicolas Sendrier, of Inria de Paris, 2 rue Simone Iff, CS 42112, 75589 Paris Cedex 12, France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **BIKE**, 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 which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **BIKE**;

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).

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Signed:

Title: Date: November 28, 2017

Place: Paris, France

I, <u>Tean-Pierre Tillich</u> , of <u>Inria</u> , 2 rue Simone Illiparis 7502, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>Bike-Bifliping</u> key Encapsulation, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.			
I further decla	re that (check one):		
which implen	thold and do not intend to hold any patent or patent application with a claim may cover the cryptosystem, reference implementation, or optimized mentations that I have submitted, known asgrain name of system); 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(print name of cryptasystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable) ;		
	I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)		

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

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I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Je

Jean-Pierre Tilli CH

Title: →

Date: 28 November 2017

Place: Paris

I, Gilles ZEMOR, of Institut de Mathématiques, université de Bordeaux, UMR 5251, 351 cours de la Libération, 33400 Talence, France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **BIKE – Bit** Flipping Key Encapsulation, 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):

X I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **BIKE** – **Bit Flipping Key Encapsulation**; **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
(print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable)
I do hereby declare that, 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: (describe and enumerate or state "none" if applicable)

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

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed.

Title: Professor

Date: November 24, 2017 Place: Talence, France



Délégation Centre Limousin Poitou-Charentes

www.cnrs.fr

3E avenue de la Recherche Scientifique CS 10065 45071 Orléans Cedex 2

1.02 38 25 52 00 F. 02 38 69 70 31

Statement by Patent Owner

- I, Marion Blin, interim Regional Delegate of CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 rue Michel Ange, 75794 PARIS cedex 16 FRANCE, am the authorized representative of the owner of the following patent(s) and/or patent application(s):
 - French Priority Patent: Procédé cryptographique de communication d'une information confidentielle, FR 10/51190, February 18th, 2010, and its validated extensions in France, in Germany, in Swiss, in United Kingdom, United States, and in Japan,

and do hereby commit and agree to grant to any interested party on a worldwide basis, if the cryptosystem known as BIKE is selected for standardization, in consideration of its evaluation and selection by NIST, a non-exclusive license for the purpose of implementing the standard (check one):

- $\sqrt{}$ without compensation and under reasonable terms and conditions that are demon- strably free of any unfair discrimination, OR
- under reasonable terms and conditions that are demonstrably free of any unfair dis- crimination.
- I further do hereby commit and agree to license such party on the same basis with respect to any other patent application or patent hereafter granted to me, or owned or controlled by me, that is or may be necessary for the purpose of implementing the standard.
- I further do hereby commit and agree that I will include, in any documents transferring ownership of each patent and patent application, provisions to ensure that the commitments and assurances made by me are binding on the transferee and any future transferee.
- I further do hereby commit and agree that these commitments and assurances are in- tended by me to be binding on successors-in-interest of each patent and patent application, regardless of whether such provisions are included in the relevant transfer documents.
- I further do hereby grant to the U.S. Government, during the public review and the evaluation process, and during the lifetime of the standard, a nonexclusive, nontransferrable, irrevocable, paid-up worldwide license solely for the purpose of modifying my submitted

cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability) for incorporation into the standard.

Signed: le (la) Président(e) du CNRS et par délégation, La Déeruée Regionale par intérim Marion BLIN

Title: Regional Delegate

Date: 20.11. 2017

Place: Orléans, France

I, Philippe & ABOKIT Lluwers it flowers, 115km. A Thoma, 87000 Linkings am the owner of the following patents and/or patent applications: "Cryptographic method for communicating confidential information" US9094189 B2, and "Procédé cryptographique de communication d'une information confidentielle" FR 10/51190, and do hereby commit and agree to grant to any interested party on a worldwide basis, if the cryptosystem known as, ISINE, is selected for standardization, in consideration of its evaluation and selection by NIST, a non-exclusive license for the purpose of implementing the standard (check one):	Makee	
$\ensuremath{ igselsuremath{ igselsuremath{ iggreen}}}$ without compensation and under reasonable terms and conditions that are demonstrably free of any unfair discrimination, \mathbf{OR}		
$\hfill\Box$ under reasonable terms and conditions that are demonstrably free of any unfair discrimination.		
I further do hereby commit and agree to license such party on the same basis with respect to any other patent application or patent hereafter granted to me, or owned or controlled by me, that is or may be necessary for the purpose of implementing the standard.		
I further do hereby commit and agree that I will include, in any documents transferring ownership of each patent and patent application, provisions to ensure that the commitments and assurances made by me are binding on the transferee and any future transferee.		
I further do hereby commit and agree that these commitments and assurances are intended by me to be binding on successors-in-interest of each patent and patent application, regardless of whether such provisions are included in the relevant transfer documents.		
I further do hereby grant to the U.S. Government, during the public review and the evaluation process, and during the lifetime of the standard, a nonexclusive, nontransferrable, irrevocable, paid-up worldwide license solely for the purpose of modifying my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability) for incorporation into the standard.		
Signed:		
Title: Date: Place:		

I, Carlos AGUILAR MELCHOR OF ENSEE IHT 2 rue Charles Camichal 31000 TOULOUSE am the owner of the following patents and/or patent applications: "Cryptographic method for FRANCE communicating confidential information" US9094189 B2, and "Procédé cryptographique de communication d'une information confidentielle" FR 10/51190, and do hereby commit and agree to grant to any interested party on a worldwide basis, if the cryptosystem known as, BNE is selected for standardization, in consideration of its evaluation and selection by NIST, a nonexclusive license for the purpose of implementing the standard (check one): without compensation and under reasonable terms and conditions that are demonstrably free of any unfair discrimination, OR under reasonable terms and conditions that are demonstrably free of any unfair discrimination. I further do hereby commit and agree to license such party on the same basis with respect to any other patent application or patent hereafter granted to me, or owned or controlled by me, that is or may be necessary for the purpose of implementing the standard. I further do hereby commit and agree that I will include, in any documents transferring ownership of each patent and patent application, provisions to ensure that the commitments and assurances made by me are binding on the transferee and any future transferee. I further do hereby commit and agree that these commitments and assurances are intended by me to be binding on successors-in-interest of each patent and patent application, regardless of whether such provisions are included in the relevant transfer documents. I further do hereby grant to the U.S. Government, during the public review and the evaluation process, and during the lifetime of the standard, a nonexclusive, nontransferrable, irrevocable, paid-up worldwide license solely for the purpose of modifying my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability) for incorporation into the standard.

Signed:

Title: Associated Brofessor Date: Nov, 2,2017 Fulouse, FRANCE I, Nicolas Aragon, of University of Limoges, 123 avenue Albert Thomas, 87060 Limoges Cedex, FRANCE, am 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: Nicolas ARAGON

Title: Ph. D. Student

Date: April the 3rd, 2018

Place: Limoges

I, Slim Bettaieb, of Worldline, Zone Industrielle A, rue de la Pointe, 59113 Seclin, FRANCE, am 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: Slim BETTAJEB

Title: Research Engineer, Ph.D.

Date: April the 3rd, 2018

Place: Seclin

I, Loïc Thierry Bidoux, of Worldline, Zone Industrielle A, rue de la Pointe, 59113 Seclin, FRANCE, am 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: Loïc BIDOUX

Title: Research Engineer, Ph.D.

Date: April the 3rd, 2018

Place: Seclin

I, Olivier Blazy, University of Limoges, 123 Av. Albert Thomas,

87000 limingly, France, am the owner of the submitted reference implementation B E Ke 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: Olivier Bland Title: Arvitant Prof Date: November 28, 2017 Place: (mogos, France

I, Jean-Christophe Deneuville, of INSA-CVL Bourges, 88 boulevard Lahitolle, 18000 Bourges, FRANCE, and University of Limoges, 123 avenue Albert Thomas, 87060 Limoges Cedex, FRANCE, am 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: Jean-Christophe DENEUVILLE

Title: Ph. D. post-doc Date: April the 3rd, 2018

Place: Bourges

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

The following must also be included:	
I, NIV Denckerone,, VNIVEYSIT of Hair, am the owner or authorepresentative of the owner format full name, of all forms the second of the submitted	orizea
reference implementation and optimized implementations and hereby grant the U.S. Gover and any interested party the right to reproduce, prepare derivative works based upon, dist	nment
copies of, and display such implementations for the purposes of the post-quantum algorith public review and evaluation process, and implementation if the corresponding cryptosystem.	
selected for standardization and as a standard, notwithstanding that the implementations to converge the documents of the convergence of the conve	nay be

Signed: Title: M f

Date: AFITI Place: FORT LAUDERDAGE

I, Philipe GABORIT, University of Limoye, 123 as. A. Thomas, Dess Cimose, France

, am the owner of the submitted reference implementation ${\sf BKE}$ 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: P. Mison it Title: P. of. Date: Vs avov. Zor

Place:

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

The following must also be included:

I, SHAY GUEROW , UNIVERSITY OF HILFA am the owner or authorized representative of the owner (principal mana. Maliferent than the second 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:

Title: PROFESSOR

Date: APRIL

Place: FORT LANDERDALE

I, Coulos AGUILAR MELCHOR of ENSEETHT, 2 multiple Camichel, 31000 Toulouse, FRANCE, am the owner of the submitted reference implementation BIKE 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:
Title: Associate Professor

Place: Toulous, FRANCE

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

The following must also be included:

I, Rafael Misoczki, 260 NE 66th Avenue, Hillsboro, OR, 97124, USA, am the owner or authorized representative of the owner (print full name, if different than the signer) 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 postquantum 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: Rafoul Mm/K.
Title: Doctor, Research Scientist

Date: 08/22/201+

Place: HILLSBORD, OR, USA.

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

The following must also be included:

I, Sridhar Iyengar, of Intel Corporation, 2111 NE 25th Avenue, Hillsboro, Oregon, 97124, am an authorized representative of Intel Corporation, the owner of the submitted reference implementation and optimized implementations, which hereby grants 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.

Intel Corporation

By: Some Lycy Name: Sridhar Iyengar

Title: Vice President, Intel Labs; Director, Security and Privacy Research

Date: September 29, 2017 Place: Hillsboro, Oregon



I, Valentin Vasseur, of Inria de Paris, 2 rue Simone Iff, CS 42112, 75589 Paris Cedex 12, France and Université Paris Descartes, Sorbonne Paris Cité, 12 rue de l'École de Médecine, 75270 Paris Cedex 06, France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as BIKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that:

• I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **BIKE**.

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Signed: Title:

Date: March 28, 2019 Place: Paris, France