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 LAKE, 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 LAKE; **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)\_\_\_\_\_;

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Ano

Title: Ph. D. Student Date: April the 3<sup>rd</sup>, 2018 Place: Limoges 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 3<sup>rd</sup>, 2018 Place: Limoges

I, Oliver Blasy of University of Lings, 12) w. A. Thomas 87000 Lines of University of Linege, 12) w. A. Thomas 87000 Lines do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I France have submitted, known as LAKE , is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

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Signed: Dlivier Blazy Title: Assidant Prof. Date: November 28 2017 Place: Livings

B

, University of timoges, 123 Av. Albert thomas 87000 timoges I, Olivier Blazy

, am the owner of the submitted reference implementation LAKE 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 Blazy Title: Amirtant Prof Date: November 28,2017 Place: Cinoges

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 LAKE, 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 LAKE; **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)\_\_\_\_\_;

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-

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

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

lier 20

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

I, Alpe GABORIT of University of Linge, 123, w. A. Thomas 82000 Linge

do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as *i HWE*, 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 LKKE; **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).

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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: P.C.M.S.R. F Title: Professor Date: 28 NOV. 2017 Place: Limous

I, Philpe GABORIT, University of Lings, 123 as. A. Thomas, 87000 Fran

, am the owner of the submitted reference implementation  $\mathcal{CME}$  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.MBonit Ul Title: Rufern Date: 15 nov. 2017 Place: USI Linux

I, Adrien Hauteville, 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 LAKE, 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 LAKE; **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)\_\_\_\_\_;

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Title: Ph.D. post-doc Date: April the 3<sup>rd</sup>, 2018 Place: Limoges I, Adrien HAUTEVILLE, 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: Adrien HAUTEVILLE

Haterille

Title: Ph. D. post-doc Date: April the 3<sup>rd</sup>, 2018 Place: Limoges

University of Limoges, 123, as. A. Thomas 87000 Olivier Ruatta of I,

do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LAKE, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

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Signed: Olivier Ruatta Title: Assistant Prof, Date: November 28 2017 Place: Limoges

Olivier Ruatta of university of Limojes, 123 avenue A. Thomas 8700 Limoje , am the owner of the submitted reference implementation  ${\it LAKE}$  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

France

copyrightable. Signed: Title: NAC Date: Povember 25 2017 Place: Limoges.

Ι,

I, Tan Prene Tillich of JNSRIA-Paris, Zune Simme Jff. HOVS Paris do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I Fitthe have submitted, known as LAKE , is my own original work, or if submitted jointly with

*I* further declare that (check one):

others, is the original work of the joint submitters.

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 UHKE; **OR** (check one or both of the following):

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Signed: St. Tillich Title: Director of Research Date: Vo nor Tort Place: PMB

I, Jean-Prove Tillich, IN R.A -Paris, Zue Simone IA, 95013 Paris, France

, am the owner of the submitted reference implementation  $\mathcal{LHKE}$  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: for Prine Tillich Title: Director of pexeard Date: 25 Mars. 2517 Place: Paris

of IMB, University of Bordeause, 351 Cours de la Liberoition, Talena 1, Gilles Zémor

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Signed: Title: Professor Date: Place: Nov-2,2017 Boroleaux, FRANCE

I, Gilles Zémor, of IMB, University of Bordeaux 351 Cours de la Libération 3 3400 Talence FRANCE

, am the owner of the submitted reference implementation  $\int_{-}^{-} A \kappa \epsilon$  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: Jene Title: Professor Date: Nov, 2, 2017 Place: Pordeaux, FRANCE