

**Agreement for the international joint supervision of a doctoral thesis**



between

## UNIVERSIDAD NACIONAL DE SAN MARTÌN (UNSAM),

Yapeyú 2068, CP 1650, San Martín, Provincia de Buenos Aires, Argentina represented by the Rector, Doctor Carlos Greco

and

## KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT),

Kaiserstr. 12, 76131 Karlsruhe, Germany represented by the President, Prof. Dr.-Ing. Holger Hanselka

Relating to the joint supervision of the doctorate thesis of

Eng. Juan Manuel Geria

# Title 1 – General Rules

In consideration of the Specific Cooperation Agreement on Joint Supervision of Doctoral Thesis in Electrical Engineering and Information Technology between UNSAM and KIT, the agreement for joint thesis supervision concerning Eng. Juan Manuel Geria is in compliance with the prevailing regulations in each country, especially the following regulations:

* Promotionsordnung des Karlsruher Instituts für Technologie (KIT) für die KIT-Fakultät für Elektrotechnik und Informationstechnik zur Erlangung des Doktorgrades der Ingenieurwissenschaften (Dr.-Ing.) (Amtliche Bekanntmachung Nr. 31 / 2017)
* Gesetz über das Karlsruher Institut für Technologie (KIT-Gesetz - KITG)
* Gesetz über die Hochschulen in Baden-Württemberg - Landeshochschulgesetz (LHG)
* Reglamento y Plan de Estudios del Doctorado en Ciencias Aplicadas y de la Ingeniería de la Escuela de Ciencia y Tecnología UNSAM
* Reglamento de posgrado de la UNSAM

# Title 2 – Administrative procedure

Eng. Juan Manuel Geria has been accepted as a doctorate candidate by the KIT-Department of Electrical Engineering and Information Technology and by the Escuela de Ciencia y Tecnología of UNSAM.

The work is expected to be carried out from May 2020 on at UNSAM with three stays at KIT:

* from June to December 2021
* from June to December 2022
* from June to December 2023

# Title 3 – Research work

Thesis work will be jointly supervised by:

* Dr. Matias Rolf Hampel, Instituto de Tecnologías en Detección y Astropartículas (CNEA – CONICET – UNSAM)
* Prof. Dr. rer. nat. Sebastian Kempf, Institute of Micro- and Nanoelectronic Systems (IMS), KIT

The supervisors agree to fully assume their supervising role for the doctorate candidate. The subject of the research work will be:

*“A Bolometric Receiver for the LLAMA-QUBIC Project”*

A work plan is attached.

# Title 4 - Health insurance

The doctorate candidate has to comply with the rules of social insurance system according to the valid regulations of both countries. The doctorate candidate is responsible for obtaining sufficient coverage by health insurance.

# Title 5 – Examination board

According to the doctorate regulations mentioned above the examination board will be composed as described in titles 6 and 7. lt will be jointly assigned by the two institutions.

# Title 6 – Thesis

The thesis will be written in English. A short summary will be written in English, Spanish and German.

The thesis will be submitted to both supervisors prior to final submission who will assess it for suitability and quality. To comply with the regulations of both institutions the thesis will be evaluated by both supervisors (for KIT) and a separate thesis tribunal (for UNSAM) consisting of three examiners, both supervisors excluded, appointed and approved by UNSAM. Both supervisors and the thesis tribunal will submit a written recommendation that the thesis is passed or failed, and if passed with which grade as stipulated by the regulations mentioned above.

# Title 7 – Oral examination

Upon acceptance of the thesis, the candidate will undergo one single oral examination, which can take place either at KIT or at UNSAM, or at both places, simultaneously by video conference. To comply with the regulations of both institutions the examination board will consist of two thesis tribunals: One conformed according to the KIT rules referred to in Article 1, subsection a), b), and

c) and another according to the UNSAM rules referred to in Article 1, subsection d) and e). The oral examination consists of an oral presentation of the thesis of proximately 25 minutes followed

by questions by the members of the examination board. These questions can address the work of

the thesis or any other topic of electrical engineering and information technology with some relation to the thesis. The language of the final examination is English, unless all participants agree upon another language.

# Title 8 – Final Grading

Upon completion of the oral examination, the board will decide whether the candidate has passed or failed the examination and will determine a final grade by taking into consideration the grades for the thesis and the oral examination. The grade of the thesis and the grade of the oral examination as well as the final grade will be determined by using the grading systems of both institutions stipulated in the regulations mentioned above. Thus, the final grade may be different on the German and the Argentinian certificate.

At UNSAM the grading will be documented in an “Acta de Examen”. At KIT, a certificate (“Bescheid”) with the grading will be issued by the Dean of Electrical Engineering and Information Technology Department.

# Title 9 – Degree

Upon successful completion of the examination requirements, UNSAM will award the title “Doctor en Ciencias Aplicadas y de la Ingeniería” and KIT the title “Doktor der Ingenieurwissenschaften”. Each university will award the doctoral degree / title according to their rules, but referring to the degree issued by the other university. In particular, the certificates have to state that the degree has been obtained in cotutelle with the other University in the framework of a double doctoral degree program. The German certificate will contain the following remark: "This diploma is valid only in connection with the diploma of the Universidad Nacional de San Martín (UNSAM), Provincia de Buenos Aires, Argentina". The degree may be used in both the Argentinean and the German form, but only in one form at any given time. The names of both universities can be added in parentheses. Concerning the UNSAM, the title will have the information of the “cotutelle” nature of the doctoral degree in the reverse.

# Title 10 – Intellectual property

Submission and publication of the thesis as well as the protection of the thesis subject are submitted to the regulations in force in both countries.

Concerning the work results made under this agreement and inventions as well as publications made under this agreement, the parties will amicably agree upon them in a separate agreement.

# Title 11 - Resolution of controversies

Both parties explicitly agree that any controversy that may arise during the period of validity of this agreement will be friendly solved

# Title 12 – Miscellaneous

This Agreement shall enter into force on its signature by the representatives of the institutions and countersignature by the doctorate candidate.

The agreement shall remain into force until the doctorate candidate has successfully completed the

examination procedure or both universities agree that the candidate did not meet the examination requirements within the cotutelle program.

The agreement can be modified or terminated by an amendment drawn up under mutual agreement and signed by the representative of each institution.

This agreement is executed in triplicate on the 10th day of December of 2020.

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| For Karlsruhe Institute of Technology (KIT) | For the Universidad Nacional de San Martín |
| Prof. Dr.-Ing. Holger Hanselka President | Doctor Carlos Greco Rector |
| Prof. Dr. Alexander Wanner  Vice President for Higher Education and Academic Affairs | Dra. Ana María Llois Vicerrectora |
| Prof. Dr. rer. nat. Ulrich Lemmer Dean of Electrical Engineering and Information Technology Department | Dr. Federico Golmar  Decano – Escuela de Ciencia y Tecnología |
| Prof. Dr. rer. nat. Sebastian Kempf Supervisor of thesis | Dr. Matias Rolf Hampel Supervisor of thesis |
| Eng. Juan Manuel Geria The doctorate candidate | |