







L'examen oral de thèse a eu lieu le : 14 septembre 2015, en présence du jury suivant :
The oral exam took place on: 14th September 2015. The examiners were as follows:

	(nom, adresse / <i>name, address</i>)	(signature)
Président du jury <i>President of the Jury</i>	Dr Cherkaoui Sidi-Rachid EPFL STI IEL-DESE , ELL 141 (Bâtiment ELL), Station 11 SCI-STI-RC 1015 Lausanne Suisse	
Directeur de thèse <i>Thesis Director</i>	Prof. Skrivervik Favre Anja EPFL STI IEL LEMA, ELB 036 (Bâtiment ELB), Station 11 1015 Lausanne Suisse	
Codirecteur de thèse <i>Thesis Co-director</i>	Prof. Peixeiro Custódio IT - Lisboa, Instituto de Telecomunicações, Av Rovisco Pais, 1 1049-001 Lisboa Portugal	
Rapporteur/ <i>Examiner</i>	Dr Rachidi Farhad EPFL EPFL SCI STI FR ELL 138 (Bâtiment ELL) - Station 11 1015 Lausanne Suisse	
Rapporteur/ <i>Examiner</i>	Prof. Encinar José Antonio Universidad Politécnica de Madrid E.T.S.I. de Telecomunicación Avda. Complutense n° 30 28040 Madrid Espagne	
Rapporteur/ <i>Examiner</i>	Prof. Çivi Özlem Aydin Middle East Technical University Middle East Technical University, Dept. of Electrical and Electronics Engineering 06531 Ankara Turquie	
Rapporteur/ <i>Examiner</i>		

Proposition de la date de la soutenance publique
Tentative date for the public defense

Date :	Salle : Room:	Heure : Time :
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PROCES-VERBAL DE L'EXAMEN ORAL DE THESE
OFFICIAL RECORD OF THE ORAL EXAM

6781

(No de la thèse/Thesis number)

NOM, Prénom du/de la doctorant-e : **HASANI Hamed**
Full name of the doctoral student:

204521
(SCIPER)

Titre du travail de thèse : **Multi-band reflectarray antennas in Ku and THz frequency bands**
Title of the thesis:

Titre à décerner : / Academic title to be awarded: **Docteur ès sciences**

Qualification du travail, sur la base du rapport du jury (originalité, qualité, valeur des résultats obtenus, présentation)
Assessment of the work, based on the reports of the jury (originality, quality, value of the results, presentation)

This thesis presents and develops many original and valuable contributions in the domain of Multi-Band reflectarray Antennas. The results have been published in several paper in some of the most prestigious conferences and journals in the field Antennas and Propagation. The manuscript is well organized and written in a very comprehensive language. The state of the art is complete, appropriate and very well referred to.

The members of the committee recognize that the candidate designed, manufactured and characterized the first multiband reflectarray in the THz band.

The jury proposes this thesis to the ABB Swiss price.

Appréciation de l'examen oral (sujet, domaine, discipline)
Assessment of the oral exam (subject, fields of research, discipline)

The candidate gives a clear and well-organized presentation. The slides are easy to follow and the content of the slides material are appropriate with respect to the explanations. The candidate demonstrates he is mastering his research topic. He replied to the questions of the jury in a convincing way.

Because of the joint EPFL-IST degree, the quality of the PhD thesis according to the IST rules needed to be indicated. The jury unanimously accepted that a "pass with merit" grade would properly qualify the contribution of the candidate (possible levels at IST are: fail, pass, pass with merit, pass with distinction; the latter category requires a proposal by the advisor/co-advisors prior to the exam).

Le jury propose / The jury proposes

- D'accepter la thèse sans réserve / To accept the thesis without reserve
- Ce travail est proposé à l'unanimité du jury pour le prix EPFL de doctorat¹
The jury proposes that the thesis be nominated for the EPFL doctoral prize¹
- Ou/Or Ce travail est proposé à l'unanimité du jury pour le prix¹ :
The jury proposes that the thesis be nominated for the following prize¹:
ABB Swiss award.....
- D'accepter la thèse sous réserve² / To accept the thesis with reserve²
- De refuser la thèse / To reject the thesis

¹ Au cas où la thèse est présentée pour un prix, les rapporteurs autorisent, en signant ce procès-verbal, la communication de leur rapport au président de la commission du prix et au jury. / Where the thesis is nominated for a prize, the jury members agree with their signature that the registrar's office communicates their report to the president and the jury of the prize committee.

² Mentionnez en détail les réserves et le délai qui seront communiqués au candidat par le Vice-président des affaires académiques – Voir page « Examen avec réserve » ci-jointe. / Please provide details of the jury's reservations, the requirements for correction and the time allowed. These will be notified to the doctoral student by the Vice-President for Academic Affairs.



PVTH



(DO-204521-EDEE) Hasani Hamed