IRAP PHD PROGRAM



http://www.irap-phd.eu

Annex III

Report Form to be used for the submission of the

Progress Report

and/or

Further pre-financing request

THIS REPORT IS SUBMITTED UNI	DER THE FRAMEWORK PARTNERSHIP AGREEMENT
	2010 - 0011
In the context of:	
The mandatory progress re	port for the first/secondspecific grant agreement with the
number:	2012 - 1710(e.g. "2012 -1234")
and/or	
□ The request for the furth	ner pre-financing payment for the specific agreement
number:	- (e.g. "2012 –1207")

General instructions

• You should carefully read Chapter IV of the *Administrative and Financial Handbook* before submitting your report form.

 $\label{eq:http://eacea.ec.europa.eu/erasmus_mundus/beneficiaries/documents/action1/sga_emjd_annex_v handbook_2012.pdf$

- The report form covers the activities of the entire reporting period. The reporting period is the period elapsed since the start of the activities of the joint programme or the submission of the last report form (i.e. progress report, further pre-financing request or final report). Because of the overlapping activities between consecutive editions (/intakes) of the joint programme, the report must address all ongoing additions as well as the activities implemented for the preparation of the next edition.
- The report must cover both the activities related to the implementation and management of the Joint Doctorate programme by the consortium (including the management of the individual fellowships), and those related to the individual research projects implemented by the EM fellowship holders.
- The report form must be submitted by the beneficiary on behalf of the Erasmus Mundus Joint Doctorate consortium. The declaration at the end of the form confirms that a process of consultation and approval has been carried out by the consortium. It is therefore important that the required information is collected in good time before the deadline for submission of the report.

Beneficiary check-list¹

To be enclosed in the Progress/Final (delete as applicable) report

Project N° : 2012-1710				
		No	N/A	
Report signed by the legal representativeor by an authorised person*	Х			
Agency's template for report respected	Х			
Electronic format of the report compatible with the Agency's system	Х			
Final costs are presented against the agreed contractual budget breakdown as required in the reporting instructions	Х			
In the Financial Report, the amount of interests received on pre-financing is declaredor 0 EUR is reportedif no interest was received (Final report only ; N/A for progress report)	Х			
Technical implementation Report (Operational part) enclosed	Х			
Financial Report part enclosed (N/A for a progress report with no request for 2 nd pre-financing)			X	
Copy of the report enclosed	Х			
Mobility tool output is enclosed	X			
Supporting documents enclosed (if applicable)	X			

*If the signatory is not the Legal Representative, a valid document confirming the authorisation to sign on his/her behalf must be added.

¹Please note that if one (or more) of the above replies are negative, the **report will be rejected**

In order to facilitate and speed up the process of the assessment of your admissible report, please take also into consideration the following points which are mandatory to submit for Progress Report and 2^{nd} Pre-financing (check boxes)²

CONTENT CHECK LIST

		YES	NO
1	The narrative part of the report has been submitted in line with the instructions given in PART A; TECHNICAL PART	Х	
2	 EACEA MOBILITY TOOL (EMT): 3.1 All relevant data has been provided and up-dated for Cat. A & B & Windows (candidate's data, mobility tracks, number of payments, amounts received – financial data only mandatory 	X	
	 for 2nd pre-financing request-) 3.2 The candidate scholarship data has been extracted (by using the progress report hyperlink) and attached to the report. 	Х	
	3.3 The non-scholarship data has been extracted (by using the "export to pdf" functionality) and attached to the report.3.4 The extracted lists have been signed and dated by the coordinator.	□ x	X
5	A template of the employment contract(s) used is included in the report	Х	

Additionally to submit for 2nd Pre-financing (check boxes):

		YES	NO
1	The financial declaration on the use of the EM Grant is signed by the legal representative of the coordinating institution (<i>if the</i> <i>signatory is not the Legal Representative, a valid document</i> <i>confirming the authorisation to sign on his/her behalf must be</i> <i>added</i>).		X

²Please note that if the Agency during the assessment of the above mentioned report detects a problem/ a missing or wrong document related to the mandatory points of the content check list, this will lead to a **request for additional information or even a rejection of the report** which cause unnecessary delays in its treatment.

2	Is the total expenditure as indicated in the EMT print-out (EM candidate scholarships) in full coherence with the figures	
	indicated in the financial declaration of Part E? (NB : the only possible difference between the amount indicated in the EMT print-out compared to the financial declaration can be the flat	
	rate/lump sum amount of max. 50.000 EUR)	
3	Has the lump sum/flat rate been added to the total expenditure	
	in the financial declaration of Part E?	

- The technical (/narrative) part of thereport must be submitted in the operational language of communication between the institutions involved in the consortium.
- The Doctoral Candidate's fellowship data extracted from the "EACEA Mobility Tool" (Part B of the report) must contain all the relevant information related to the candidates enrolled (with and without EM fellowship) funded by the EM Programme during the course edition(s) concerned by this report. See EACEA Mobility Tool User Manual for further information. Any empty fields in the output must be explained in the report.
- The EACEA Mobility Tool User Manual can be retrieved here:

http://iis-cfprod.eacea.cec.eu.int/mobility/docs/EACEA-Mobility-database-guidelines-EM.pdf

• The original and one copy of the report must be sent no later (as per postmark) than by the deadline (15/03/2013) specified in the specific agreement to:

Education, Audiovisual and Culture Executive Agency (EACEA) Unit P4 - Erasmus Mundus and External Cooperation Avenue du Bourget, n°1 - BOUR 02/29 BE-1140 Brussels Belgium

- An electronic version of the progress report must be sent no later than by the deadline (15/03/2013) to the following e-mail address: eacea-em-consortia@ec.europa.eu
- You are strongly advised to send your report by registered post (express courier) to ensure a record of postage. Additionally, you are advised to keep a copy of it, including any annexes.
- Please note that a late submission of the contractually required reports may result in penalties or even cancellation of the specific agreement, in accordance with the General Conditions of the framework partnership agreement.

PART A: TECHNICAL PART

Instructions concerning the technical part of the Report

The technical part of the Report should provide a summary of the Erasmus Mundus Joint Doctorate implementation during the period elapsed since the submission of the last report (or the beginning of EMJD in case this is the 1st report ever submitted).

This summary **must cover all ongoing EMJD editions (/intakes)** as well as the preparatory activities already implemented by the consortium for the next edition (/intake).

When answering the questions below the report should

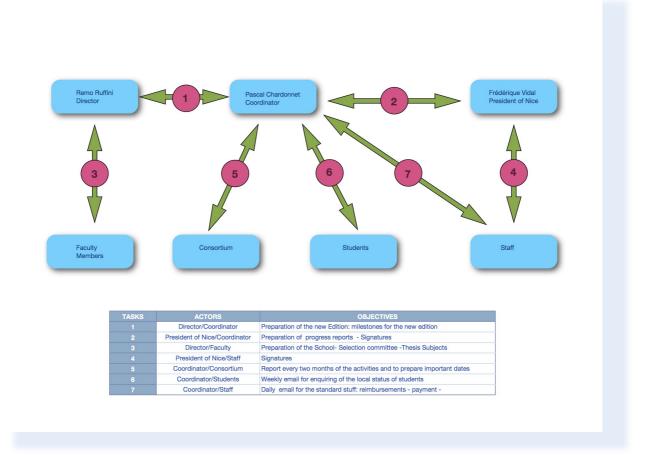
- When applicable, clearly specify the edition(s)/intake(s) the information provided refers to
- Concentrate on the new elements (/developments) as compared to the last report (or the original application in case this is the 1st report ever submitted).

Sub-sections <u>1.a - 1.k and 2</u> of the report must cover each <u>min. $\frac{1}{2}$ and max. 1 page</u> (excluding possible enclosures).

- 1. Please describe the consortium activities since the submission of the last report (or the approval of the original application in case this is the 1st report ever submitted) for what concerns:
 - a. The consortium organisation (administrative, academic, research and financial management) and specific roles of individual partners (including, if applicable, associated partners)
 - Our IRAP PhD program is composed of a Scientific Staff in charge of all the scientific part: selection of the candidates, thesis projects, supervising the progress of each candidates, preparation of the PhD School in Relativistic Astrophysics.
 - This staff is directed by Prof. Remo Ruffini. In add to this staff, we have an administrative staff in Nice University.
 - The coordinator is Prof. Pascal Chardonnet

After the selection meeting and the approval of the main list by the Agency, our candidates are officially informed by the coordinator (see Annexe-1). We gave them 10 days in order to accept our offer. Generally our candidates accepted immediately and then the coordinator start to write "the convention d'accueil". This document is essential in order to obtain French visa (Annexe-2). At the same time, the coordinator communicate the names of the PhD students to Marsh Insurance. In such way, we could send by email the student card (Annexe-3). This is very useful because certain consulates asked an Insurance. The original card is given to the student at his arrival in Nice.

The organization chart is attached in hereby (please notice that the name of the new President of Nice University is Prof. Frédérique Vidal. It should be changed in the EM Mobility Tool)



Being assigned to the Office of International Projects Erasmus Mundus, Mr Emmanuel Losero deals with the "EMJD International Relativistic Astrophysics" in taking care of orders, mission's orders and refunds or bills payment as well as verifying that the students are paid every month and by maintaining the budget. At the accounting office, Mrs. Julie Coquin is responsible for collecting EACEA revenue in order to place the dates of opening and closing of the agreement. She manages the "project builder", that is to say that she organizes the credits in 2 parts: one part "operating costs" and one "payroll" in accordance with the convention established by the EACEA. She also establishes thresholds limiting expenditures and the financial center where the credits are. On the other hand, Emmanuel Losero closely works with the Finance department of the Faculty of Sciences, led by Mrs. Annie Vidal, through Mrs. Cathy Siveri who checks the expenses, then Mrs. Veronica Gallo from accounting agency makes payments. Finally, Julien Chabert saves providers records on the software "SIFAC" so that banking informations could be stored in the database. The Accounting office also performs the grants' payment. Pina Barbaro is in close contact with the students for Bank account, Social security problem, booking rooms in Nice

- Before the arrival of the students the coordinator communicates to the staff in Nice the names and identity of the winner.

- In such way, the employment contract is prepared before the arrival of the students.
- At the arrival in Nice in September, our non European student open a bank account in Nice. We have an agreement with a Bank: the credit card is free and the bank give 50 euros welcome for all our students.
- At the same period, our students will also do the other formalities for Social Insurance Card and for Residence Permit.

b. The payment modalities of the individual fellowships

Since all bureaucratic part are well prepared the students can received their salary on the European bank very easily. The participation cost are also sent directly to the host institution.

c. Promotion activities for ongoing and future editions/intakes

First of all we have a dedicated website: www.irap-ph.eu

This allows us to promote all the activities of our PhD program: all the thesis subjects are online. This year, we have add three important part:

- a full integrate online registration (see numerous annexes on web) with possible help at any stage of application. All our candidates are very satisfy by this new procedure. It is very easy and each candidate can return up to the deadline to its own application and modify. This is a very good process. Then the referee have, invited by candidates, can also have access to the application and put an evaluation and upload easily a letter of recommendation. In add, the coordinator could invite numerous evaluators that have access to all applicants and put individual evaluation. At the end of the call, we could extract a full pdf (or excel table) of all candidate or individual file for each candidate. This procedure is quite new and very powerful. I have put in annexe all the pages, and I hope that the Erasmus Mundus Team help us also to improve this procedure. I already asked candidates. They find this procedure "easy" and "friendly".
- An intranet section for all partner members and for all our EMJD students. We notice that to send important documents by emails is "old fashion" and the best is to have a secure place where to store all important of the live of our consortium. I have put also the presentation of students during meeting, so prof could have access to the presentation of other students. (see Annexe 5 and http://irap-phd.eu/page15/page15.html button "intranet")
- This year we have bough a independent server to be sure that all documents regarding the calls couldn't be violate from external part. Only our consortium member have access to this server. We have declare this activity to the CNIL in agreement to their request. When the candidate apply, they are all informed individually about the personal treatment of their personal data (see page "submit" in Annexe)
- Now, regarding promotion, for this new call 2013 (fourth edition) we have realized 2000 posters sent all over the world using ICTP network as previous years. This year we do not have realized advertisement in Nature and CERN. But, in addition, we have used the network Campus France to distribute our activities and also : http://www.inspirehep.net. Apparently this new method is very successful since we

get more students (162) than last year (129) and we spend lest money in adverts. This is an example of good practice that could be underline.

- Using the network of Campus France, we get many candidates, most of them are weak, but this also tells us some expectation of these countries in from of European Program in Education. I notice reading the application a great hope toward Europe. May be it should be a way to come up to somebody's expectations.
- The coordinator has created a dedicated page on Facebook where some activities of our program are given: Irap Phd-Program
- We have also created a global document for all the cycle accessible online (63 Mb): http://lapth.cnrs.fr/pg-nomin/chardon/IRAP_PhD/EMJD-Students.pdf
- Acknowledgements : we have imagine a canonical way for the students to thank ERASMUS MUNDUS in their papers. This is a way to promote the Erasmus Mundus Program inside the scientific community :

for the cycle I (2010-2013):

"Student Name Student Surname" is supported by the Erasmus Mundus Joint Doctorate Program by Grant Number 2010-1816 from the EACEA of he European Commission

for the cycle II(2011-2014):

"Student Name Student Surname" is supported by the Erasmus Mundus Joint Doctorate Program by Grant Number 2010-1640 from the EACEA of he European Commission

for the cycle III(2012-2015):

"Student Name Student Surname" is supported by the Erasmus Mundus Joint Doctorate Program by Grant Number 2010-1710 from the EACEA of he European Commission

d. The procedures followed and measures taken for the identification of research projects, the selection of candidates and the allocation of individual research projects,

This is the domain of the Faculty. The coordinator is also the web manager and asks regularly the Faculty for new thesis projects. Once they are approved, they are put on the website. The Faculty is also in charge of the selection process in January-February. A secure web site has

been created. All personal data are deleted after selection. Only the coordinator keep this data only for a limited period : the duration of the edition. We have informed the CNIL of our procedure to select candidates since personal data are involved. We have obtained their agreement provided we put the following sentence in our personal application form for the candidates

« The candidate is informed and has agreed to the fact that if he/she is selected (proposed for a fellowship, put on the reserve list, or enrolled on a self paying basis) his data may be used for the purposes of evaluating the Erasmus Mundus Programme and will be made available to the Agency, the EM National Structures, the EU Delegations and the Erasmus Mundus Doctorale candidate and Alumni Association (EMA), acting as stakeholders of the programme. The personal data is collected and used in accordance with Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on "the protection of individuals with regard to the processing of personal data and on the free movement of such data". The candidate is informed and has agreed to the fact that his data will be also transferred to Non-EU partners of our consortium for the quality assessment of the applications. PLEASE READ THIS TEXT CAREFULLY. BY CLICKING THE "I AGREE" BUTTON AT THE TOP, YOU AGREE TO THESE CONDITIONS. »

e. The delivery of the taught part of the EMJD

- The specificity of our program is the creation of **European PhD Training School in Relativistic Astrophysics.** We organized each September a one-month meeting in Nice. This help us to do the administrative formalities for the new students and to create a "spirit of a School" at Doctoral Level since we mix all editions. Now all our students know themselves and it happens that they visit each other in special occasions like birthday. They also exchange scientific information on links, interesting papers. The feedback from them is that our idea is very welcome. They didn't expected such "School" at PhD level.
- We are thinking to use also iTunes U to promote video of our courses.
- All the courses of our PhD Schools are online and therefore are accessible to everyone:

http://irap-phd.eu/page9/page9.html

These courses given by leading experts in the fields have a great success not only among our PhD students but also to other students and researchers that have access freely to the result of our PhD School in Relativistic Astrophysics.

f. The overall supervision of doctoral candidates

This is the matter of the Faculty. But we also used the expertise of external professor visiting us during our PhD Schools.

- The Doctoral Candidate is required to provide her/his Thesis Adviser (and Co-Adviser, if applicable) of all necessary reports. It is her/his duty to point to the Thesis Adviser

(Co-Adviser) any difficulty encountered. The frequency of regular work meetings (e.g. weekly periodicity) is agreed upon at the beginning of the thesis between Doctoral Candidate and Adviser/Co-Adviser. All parties are bound to conform to the obligation of regular work meetings.

- Two yearly reports on the progress of the thesis work is prepared by the Doctoral Candidate and presented in the two one-month joint scientific activities. A full list of courses, seminars, conferences and other relevant activities carried out is included. These reports is also submitted to the Faculty.
- The Thesis Adviser accepts to reserve a significant part of her/his time to follow the Doctoral Candidate's work and takes full responsibility for the thesis supervision, even when a Thesis Co- Adviser contributes to it. She/he will actively participate in deciding how the work should progress on the basis of partial results, will point out to the Doctoral Candidate the scientific progress that her/his results are bringing, as well as the possible objections and criticism.
- The Thesis Adviser, with the assistance of the Co-Adviser (if applicable), discuss twice a year the progress report with the Doctoral Candidate, assess its content and propose the necessary modifications before it is sent to the Faculty. The Thesis advisor may submit an assessment to the Faculty, if deemed necessary, and particularly whenever problems with the Doctoral Candidate's work begin to appear. The Doctoral Candidate receives a copy of such an assessment.
- The services offered to doctoral candidates (and more particularly with regards to the mandatory mobility parts of their EMJD) and the languages used (regarding research activities and language learning possibilities)
- The Faculty monitors the scientific progress of each Doctoral Candidate. In agreement with the Thesis Adviser and, if necessary, of additional experts sought for this purpose, the Faculty may suggest ways of improving the Candidate's overall progress.

g. The concrete measures taken by the consortium with the relevant ethics committees and/or national/local authorities to address, where applicable, ethical issues arising from the research activities of the Doctoral Candidates

This is the matter of the Faculty. But we also used the expertise of external our scientific subject "Relativistic Astrophysics" is not related directly to ethical issues. But we took care of personal data using the service and the control of the CNIL (<u>http://www.cnil.fr/</u>) where we have declare our website and our activities of promotion and recruitment of PhD students.

h. The services offered to doctoral candidates (and more particularly with regards to the mandatory mobility parts of their EMJD) and the languages used (regarding research activities and language learning possibilities)

The mobility of our students is enhanced due to the fact that we have a solid scientific network and each partner provide with great facility the lodging house, office and local help for students during mobility period. Due to our spirit of « PhD School » the mobility is also seen improved by the fact that all students know themselves. In some case they already visited the new institute for mobility because they have visited their friends there for birthday occasion !

Doctoral Candidate must validate at least 180 hours of courses, lectures and seminars every year – as attested by the Faculty .

In the host institutions, in addition to courses, seminars and participation in topical schools, the students also follow language courses in order to foster their practice and knowledge in languages such as English, French, German, Italian or Swedish.

i. The EMJD evaluation and monitoring mechanisms

One of our evaluation is obtained directly from our PhD students. Each year the coordinator asks the students to write a free report about all the activities of the past year. Then the coordinator present this report to the consortium and propose improvements related to students 'suggestions.

The IRAP PhD Faculty, composed of up to three Members for each Institutions is in charge of evaluating and monitoring the Program. Namely :

- Defines the admission procedure of the students to the IRAP PhD program, defines the academic curriculum of the program, assigns thesis topics, assigns the first and second supervisor to each candidate, decides whether candidates performance is good enough to grant continuation of the program,
- Authorizes the defence of the thesis and approves the composition of the defence committee.
- Oversees the fulfilment of the duties of the IRAP PhD candidates, the duty of the host Institutions and the duty of the coordinating Institution
- It activates mediation procedure for any problems would arise in the IRAP PhD Program
- Appoints eligible new partners to the Consortium, organizes workshops
- Decides marketing/advertising strategies of the program as well as the networking between current, past and perspective candidates and their relationship with the labour market

- Oversees the quality of the program, also by collecting evaluation forms from the candidates

We have add an intranet page to all students and all the consortium members where all relevant documents are accessible (progress reports, guide, presentations of students, PhD School, Consortium agreement, Candidate Doctorale Agreement, consortium meeting..).

http://irap-phd.eu/page15/page15.html

In such way, each member of our consortium (Professors, Administrative Stall and also students) can have access to all information about our PhD program. See Annexe-4

j. The final degree recognition status in each of the degree awarding institutions (and more particularly the progress made toward the award of joint degrees)

During the year 2011 an important step has been overcame by a text of the French Ministry of Education on Joint Diploma.

This full text can be downloaded using the link :

http://www.2e2f.fr/docs/circulaire-diplomes-conjoints-du-9-juin-2011.pdf

B.O. Bulletin officiel n° 23 du 9 juin	2011	
Annexe 1		
	MASTER t international par l'Université de [] et ions relatives au diplôme de master délivré dans les pays, par exempl MASTER OF ARTS awarded by the x partner universities of [] and [] LAUREA SPECIALISTICA	
rilasciata in partenariate RÉPUBLIQUE FRANCAISE	o internazionale dall'università di [] con l'università di [] e l'un UNITED KINGDOM	niversità di [] di [] REPUBBLICA ITALIANA
MINISTÈRE DE L'ENSEIGONEMENT SUPÉRIEUR ET DE LA RECHERCHE Vu le code de l'éducation ; Vu le décret n° 84-573 du 5 juliet 1984 modifié relatif aux dipômes nationaux de l'enseignement supérieur ; Vu le décret n° 2002-481 relatif aux grades et aux titres universitaires et aux dipômes nationaux ; Vu le décret n° 2005-450 du 11 mai 2005 relatif à la délivrance de dipômes en partenariat international ; Vu les textes autorisant l'université de, l'université de, à délivrer des dipômes en envient master dans le cadre de l'Espace Européen de l'Enseignement Supérieur ;	UNIVERSITY OF	UNIVERSITÀ
Vu l'arrêté du 25 avri 2002 relatif au diplôme national de master ; Vu l'arrêté du 25 avri 2002 relatif au diplôme national de muster ; L'al délimer des diplômes nationaux ; Vu les pièces justificatives produites par M, né le		
Le diplôme de MASTER (initiulé du domaine), à finalité (recherche ou professionnelle)mentionspécialité est délivé à M. [prénom, NOM patronymique] au titre de l'année universitaire 2010-2011 et corrière le grade de Master; pour en jouir avec les droits et prérogatives qui y sont attachés.	MASTER OF ARTS	LAUREA SPECIALISTICA IN
Décerné à [], le []	[Date et lieu de délivrance par l'établissement d'enseignement supérieur partenaire]	[Date et lieu de délivrance par l'établissement d'enseignement supérieur partenaire]
Le titulaire Signature du chef Le Recteur de l'académie, d'établissement chancelier des universités	Signature du chef d'établissement d'enseignement supérieur étranger	Signature du chef d'établissement d'enseignement supérieur étranger
Numéro du diplôme :		

© Ministère de l'Enseignement supérieur et de la Recherche > www.enseignementsup-recherche.gouv.fr

On the basis of this text we are building an exemplary of Joint Diploma (Annexe-6)

- The thesis is subject to only one examination (thesis defence) recognized by all Degree -Awarding Institutions.
- The thesis defence will take place at the Host Institution following the local rules and regulations. The Thesis Adviser and Co-Adviser (if applicable) shall be present at the Defence.

- The thesis is written in English as the common language to all the Institution of the IRAP PhD a summary in the language of the Host Institution may be required, depending on local regulations.
- The Thesis Adviser, in agreement with the Candidate, proposes to the Faculty at least two Referees, external to the IRAP PhD and its Partner Institutions, whose duty is to assess the quality of the manuscript and its correctness.
- The Faculty immediately informs the Doctoral Schools, of its decision and nominates the Referees. The latter receives the complete manuscript with sufficient time for a review in any case no less than 2 weeks.
- Each Referee, following her/his assessment duly and amply documented in a written report in English, recommend or not the authorization for the Thesis Defence.
- The authorization to defend the Thesis is granted by the Host Institution hosting the Proceedings in agreement with the regulations stipulated in the Consortium Agreement.

Here we report the Article 5 – A) of our Consortium Agreement regarding the degree awarded :

٢٢

ARTICLE 5A) - DEGREE AWARDING INSTITUTION

§1. Degree-Awarding: At the end of their curriculum the Students are awarded a joint Ph.D. title signed by the Rectors/ Presidents of the six Academic Institutions of the IRAP PhD consortium. See also paragraph 11 of the Doctoral Candidate Agreement (see Annexe 3)

§2. The language of the thesis, the authorization to defend the thesis, the composition of the defence committee, the thesis defend procedure and intellectual property have been outline in the paragraph 10.1, 10.2, 10.3, 10.4, 12 of the Doctoral Candidate Agreement (see Annexe 3)"

k. Other related activities that may directly benefit the EMJD

2. Describe **any positive experiences and/or, problems encountered** during the period covered by this report related to the Erasmus Mundus Joint Doctorate course management and possible improvements to be envisaged

This year we have modified our application procedure via a new website on a server dedicated uniquely to our PhD program. It is very easy to apply and the student can modify their application up to the deadline by adding new documents. There is a part for evaluators and for referee. If we look to the reaction of students of this year, they are very satisfy by this procedure. Of course there is always the possibility to request help at any moment of the application. See Annexe-Web

3. If applicable, provide herein the necessary feedback where a follow-up has been requested by the Agency in the previous progress report and/or final report.

Summary Data

		3 rd Country Doctoral Candidates		EU Doctoral Candidates		
	Edition	With an EM fellowship	Without an EM fellowship	With an EM fellowship	Without an EM fellowship	
Number of Doctoral candidates enrolled (for the ongoing editions)	1	6		4		
	2	6		3		
	3	6		3		
	4					
	5					

	Name of the Degree awarding institution (add rows if necessary)	Name of the Erasmus Mundus Degree awarded
Α	University of Nice Sophia Antipolis	PhD in Relativistic Astrophysics
В	University of Savoie	PhD in Theoretical Physics
С	University of Roma La Sapienza	PhD in Relativistic Astrophysics
D	University of Ferrara	PhD in Physics
Е	University of Stockholm	Doctor of Philosophy Degree
F	Freie University of Berlin	PhD in Natural Things
G		
4.		

PART B: EM FELLOWSHIP HOLDERS REPORT

Doctoral Candidate name (first name - LAST NAME)	Enrolment date in the Join Programme*
Eckhard STROBEL	01.09.2012
Name and Institution of the Doctoral Candidate Supervis	sors*
Prof. She-Sheng Xue, Università di Roma "La Sapienza"/	
Prof. Hagen Kleinert, Freie Universität Berlin/ICRANeT I	
Title of the EMJD research project*	
Critical and Overcritical Fields	
Short summary of the EMJD research project* (the summary of the su	ummarv must include the mandator
mobility elements as well as the taught/training components	
doctoral candidate supervision and/or research deliverabl	
Strong electromagnetical fields play an important role in process which is believed to occur during the gravita formation of Black Holes, which is in turn connected to known as Gamma Ray Bursts. Currently laser technology gets near the regime of the ca exists the possibility that self focussing materials such a used to examine these processes. The aim of the PhD thesis is to theoretical investigate the fields as well in the astrophysical as in the laboratory cont To deepen my understanding of astrophysical processes which are hosted especially for the students of this PhD pr	ational collapse which leads to the the important astrophysical process ritical electromagnetical field. Then as electron-positron plasmas can b e pair production in electromagnetic text. s I will attend several PhD school
Main activities implemented by the doctoral candidate sing	
Since the start of my research work I studied the li electromagnetical fields. I also performed first calculation Heisenberg Lagrangian. Expanding it in a form using strong fields. This formulation indicates that there is Electrodynamics as a fractional Quantum Field Theory strongly coupled many particle theories. Additionally to this research work I visited a school on as and the conference "The Current Issues on Relativistic 2012.	iterature on the subject of critica ons starting from the effective Euler sums lead to an approximation fo s the possibility to write Quantur y as has been done beforehand fo trophysics in Nice in September 201
Main activities planned to be implemented during the 12 this report	
In the next year I plan to further elaborate the idea of frac detail this should incorporate the investigations of physic construct.	cal implications of the mathematic
Furthermore I want to investigate the influence of sel	
positron-plasmas on the pair-production rate in strong ele Additionally to this I will visit a second school on astrophy	0 1

Doctoral Candidate name (first name - LAST NAME)	Enrolment date in the Joint Programme*
Maxime ENDERLI	September 2012

Name and Institution of the Doctoral Candidate Supervisors*

Supervisor: Carlo Bianco, Sapienza University of Rome

Co-supervisors: Remo Ruffini and Luca Izzo, ICRANet and Sapienza University of Rome Title of the EMJD research project*

Cosmological structures and cosmological parameters with gamma-ray bursts

Short summary of the EMJD research project* (the summary must include the mandatory mobility elements as well as the taught/training components and the main milestones for the doctoral candidate supervision and/or research deliverables)

The aim of the project is to use observations of gamma-ray bursts in order to find relations and tests regarding cosmological issues. Since gamma-ray bursts can be detected out to very large distances, they are natural candidates to probe cosmological models. Particular attention is given to the possibility of using them as standard candles.

Mandatory mobility:

- Erasmus Mundus school in Nice, France, 3rd - 19th September 2012

- *Current issues in relativistic astrophysics in Seoul, South Korea, 5th - 6th November 2012 Main activities implemented by the doctoral candidate since the delivery of the last report*

- Participated to the EMJD school in Nice.

- Surveyed current literature on gamma-ray bursts and studied several issues related to the subject.

- A first series of computations has been carried out to check the consistency of cosmological models with the hypothesis of a standard late-time behaviour of some gamma-ray bursts.

Main activities planned to be implemented during the 12 months following the submission of this report

- Explore the apparent clustering of the late-time behaviour of some sub-classes of gammaray bursts

- Build up on existing work on the luminosity function and the rate density of gamma-ray bursts

Doctoral Candidate name (first name - LAST NAME)	Enrolment date in the Joint Programme*
Anastasia FILINA	September 2012

Name and Institution of the Doctoral Candidate Supervisors*

Prof. Pascal Chardonnet LAPTH, Université de Savoie PRES Grenoble

*Title of the EMJD research project**

Astrophysics and Cosmology with Gamma-Ray Bursts.

Short summary of the EMJD research project* (the summary must include the mandatory mobility elements as well as the taught/training components and the main milestones for the doctoral candidate supervision and/or research deliverables)

When the satellite BeppoSAX detected afterglow (fading X-ray emission) after detecting of a gamma-ray burst. it was proved the cosmological nature of GRB. For GRBs with known redshift we can construct the distribution of observed GRBs per redshift. This statistical analyses of GRBs is necessary for understanding the nature of GRB phenomena, because we can based our theory about progenitors of GRBs on observational data, and use it for comparison of results. This requires consideration of the various models, like different explanations of GRB rate, different form of luminosity function of GRBs. Because for the satellites becomes to possible to detect GRBs with higher values of redshifts, if connect the nature of GRBs with the death of massive stars, it could be possible to better understand the era of the first stars.

Mobility:

Erasmus Mundus School Nice, France 01.09.2012-22.09.2012

Scientific collaboration, Ferrara, Italy 23.10.2012-09.11.2012

Main activities implemented by the doctoral candidate since the delivery of the last report

Main activities planned to be implemented during the 12 months following the submission of this report

We plan to consider cosmology of very massive stars and pair-instability supernovae. This is a very important area which could allow us to estimate the GBR-rate depending on redshift.

Doctoral Candidate name (first name - LAST NAME)	Enrolment		in	the	Join
	Programme*				
Fernanda – GOMES DE OLIVEIRA	September 20	012			
Name and Institution of the Doctoral Candidate Supervi	sors*				
Jorge Rueda – ICRANet and Sapienza University of Rome	2				
Remo Ruffini – ICRANet and Sapienza University of Rome	2				
Title of the EMJD research project*					
Induced Gravitational Collapse, GRB-SN connection, Neo	o-Neutron Stars	1			
Short summary of the EMJD research project* (the s	ummary must	includ	e the	e man	dator
mobility elements as well as the taught/training component	ients and the n	nain n	ilest	ones j	for the
doctoral candidate supervision and/or research deliverab	les)			Ū	
- One of the main parts of the project is devoted to study the	he evolution of	binary	, syst	ems	
composed of an evolved star and a neutron star and the co	onditions under	· which	they	, lead	to the
process of Induced Gravitational Collapse (IGC), within t					
(GRB) supernova (SN) connection. It supposes the study is	-	-		-	
explosion of the evolved star before the system could mere					wing
to gravitational wave emission. There are in addition othe		0 0			•
occurrence of the IGC as short orbital periods of order of				.,	
- It is studied also the emission of gravitational waves from		binari	es or	iginat	ing
short GRBs, and their detectability by the new generation				-	<u> </u>
- The emission coming from the neo-neutron star originate	10				
Main activities implemented by the doctoral candidate sin			-		
- Study of the IGC scenario, the evolution of binary system				-	
- Calculation of the emission of gravitational waves from					short
GRBs and the sensitivity of gravitational waves detectors				0	
Ligo. A first study was done using the point-like and non-1					
characteristic amplitude of gravitational waves and the se				and	
detectors such as Virgo, Ligo, and Advance Ligo was buil	• •	,			
8,8, 8,	ι.				
	ι.				
The doctoral candidate participated in the Astrophysics So		ophia	Antip	olis f	rom
The doctoral candidate participated in the Astrophysics Solution S_{rd} to September 21 st 2012.		ophia	Antip	oolis f	rom
September 6 rd to September 21 st 2012.	chool in Nice/S				
September 6 rd to September 21 st 2012. Main activities planned to be implemented during the 1.	chool in Nice/S				
September 6 rd to September 21 st 2012. Main activities planned to be implemented during the 1. this report	chool in Nice/S 2 months follo	wing t	he sı	ıbmiss	tion o
September 6 rd to September 21 st 2012. Main activities planned to be implemented during the 1.	chool in Nice/S 2 months follo ⁻ pproach for the	wing t gravit	he su tatior	ıbmiss nal wa	rion a ve
September 6 rd to September 21 st 2012. Main activities planned to be implemented during the 1. this report - The next goal is to study an extension of the point-like ap emission; the effective one body approach of Damour and	chool in Nice/S 2 months follo pproach for the l collaborators.	wing t gravit In doi	he su tatior ing th	ıbmiss nal wa nis we	vion c ve will
September 6 rd to September 21 st 2012. Main activities planned to be implemented during the 1. this report - The next goal is to study an extension of the point-like ap	chool in Nice/S 2 months follor pproach for the collaborators. rent Post-Newto	wing t gravit In doi onian s	he su tatior ing th series	ıbmiss nal wa nis we s-expa	ve ve will nsion
September 6 rd to September 21 st 2012. Main activities planned to be implemented during the 1. this report - The next goal is to study an extension of the point-like ap emission; the effective one body approach of Damour and include the effects of tidal interactions in binaries at differ	chool in Nice/S 2 months follor pproach for the collaborators. rent Post-Newto s well as to IGC	wing t gravit In doi onian s C binar	he si tatior ing th series ry pro	ıbmiss nal wa nis we s-expa	ve ve will nsion ors.

- A mobility stay is planned to take place in France.

3 /	Enrolment Programme ^s	in	the	Joint
ZEINAB KHORRAMI	01/09/2012			

Name and Institution of the Doctoral Candidate Supervisors*

Prof. Farrokh Vakili and Dr. Olivier Chesneau *Observatoire de la Cote d'Azur*

Title of the EMJD research project*

"Initial Mass Function and Kinematics of Star Burst Region in 30 Doradus with VLT adaptive Optics"

Short summary of the EMJD research project* (the summary must include the mandatory mobility elements as well as the taught/training components and the main milestones for the

doctoral candidate supervision and/or research deliverables)

R136 is a massive compact star cluster near the center of 30 Doradus in Large Magellanic Cloud with stellar ages for the most massive stars in the range of 1-2Myr and a total stellar mass in the range of $\sim 0.35-1 \ 10^5 \text{ M}$

The aim of my project is to observe this cluster with the new instrument SPHERE. SPHERE will be installed on the Nasmyth platform of the Very Large Telescope (VLT) based on extreme adaptive optics correction and high contrast coronagraphic imaging. In this way we will be able to resolve the core of the cluster, detect faint star in the vicinity of the bright and massive supergiants, providing a better constraint on the initial mass-function of the cluster. Moreover, highly accurate astrometry will be performed as a starting point of a long term study of the kinematics of the fast moving stars ('runaways').

This object may provide key answers to many fundamental questions regarding the physics of the formation of stars, stellar clusters and their role in the cosmos.

Main activities implemented by the doctoral candidate since the delivery of the last report

Workshops and Schools:

1- Shaping E-ELT Science and Instrumentation, ESO, Munich, Germany, Feb. 25- Mar. 1, 2013

2- SPHERE science meeting, Grenoble, France, December 12-14, 2012

3- IRAP school, Valrose University, Nice, France, September 03-22, 2012

Talk:

"High Spatial resolution of the compact starburst cluster R136 at 50 to 10 mas ",

Fizeau building of Valrose University, Nice, France, Feb 18, 2013

Poster:

" High Spatial resolution of the compact starburst cluster R136 at 50 to 10 mas ", Poster presentation in Shaping E-ELT Science and Instrumentation meeting, ESO, Munich, Germany, Feb. 25- Mar. 1

Main activities planned to be implemented during the 12 months following the submission of this report

During the first 6 months, since the beginning of my thesis in September 2012, I have explored different aspects of my research subject in the context of:

1) Extreme Adaptive Optics on the 8m telescope facility of ESO at Paranal/Chili with the SPHERE 2nd generation focal instrument of SPHERE. I emphasize that I will benefit from the guaranteed time for observation (GTO) since my thesis host institute (OCA) is member of the consortium that constructs SPHERE.

2) The nature, mechanisms and processes that govern the physics of compact star formation clusters and more precisely R136 complex of 30 Doradus in the Large Magellanic Cloud galaxy. I have made an extensive literature study of this object both from past and recent observations and the models and scenarios that have been proposed to unveil its nature.

3)I have explored different photometry oriented softwares, available in the literature, to analyse the individual star magnitudes of R136 on HST past observations.

My duty during the next year and beyond will be:

1) To carry a global photometric analysis of R136 (sometimes compared to similar stellar clusters of our own galaxie) from HST past observations and MAD (multiconjugate adaptive-optics demonstrator) images in IR wavelengths from the VLT/ESO. This will enable me to put constraints on the IMF of R136, to refine the core out to external star components of the cluster and eventually identify potential binary and/or very massive stars of the cluster. It is also hoped that this study can bring constraints and speculate on the kinematics of the cluster.

2) To prepare the observations of SPHERE for its science demonstration program which should start during the first semester of 2014.

For this I need to get familiar and become a user, even a developer, of the CAOS numerical simulator of SPHERE for those items that concern my R136 observations since this object is a real challenging target for SPHERE.

3) I will continue to develop and adapt a N-body numerical model that I have already developed and used during my Masters degree thesis to the case of R136.

The overall and final objectives for my thesis will be to draw a new picture of R136 for its physical parameters: high resolution in the IR images of its stellar components, their mass, luminosity and evolutionary status, their multiplicity statistics, the different population components, the IMF and hopefully from a multi-epoch survey of R136 get an accurate estimate of the mass and kinematics of this starburst compact cluster.

The studies, if successful would then be used to observe star formation regions of our own galaxy and others in our local group.

Doctoral LAST NA		name	(first	name	-	Enrolment date in the Joint Programme*
Disha SAI	WANT					01/09/12

Name and Institution of the Doctoral Candidate Supervisors*

Prof. Fillipo Frontera, University of Ferrara Dr. Lorenzo Amati, INAF Bologna **Title of the EMJD research project***

Cosmology with GRBs

Short summary of the EMJD research project^{*} (the summary must include the mandatory mobility elements as well as the taught/training components and the main milestones for the doctoral candidate supervision and/or research deliverables)

Gamma ray bursts are the brightest cosmological sources in the Universe., with

isotropic luminosities upto 1054 Erg cm-2s-1 and a redshift distribution extending atleast upto $z \sim 6.3$. Thus, these sources may be imperical for cosmological studies, if one can use them to provide measurements of the cosmological parameters independently of other methods, like cosmic microwave background, type Ia supernovae, baryon acoustic oscillations and galaxy clusters. However, GRBs are not standard candels, given that their luminosities span several orders of magnitude under the assumption of both isotropic and collimated emission. In the recent years, several attempts to standardize GRBs have been made, mainly on the basis of the correlation involving intensity indicator like (1) isotropic radiated energy (Eiso) or the isotropic peak luminosity (Lp,iso) or (2) the photon energy at which the time averaged vFv spectrum peaks (peak energy) and other observables, like the break time of the afterglow light curve tb. I am working on datasets (Beppo SAX, Fermi, Swift, BATSE, Konus-Wind) to refine time averaged values of Ep,i and Eiso by taking into account uncertainties on spectral parameters and fluences.

Courses attended so far:

University Italian Language course

Mathematical Physics Course Courses I am attending at present: 1. Radiative processes in Astrophysics 2. X-Ray and Gamma Ray Astronomy Techniques Mobility so far: IRAP school (19thSpetember 2012- 22ndSeptember 2012)

Mobility foreseen: 1. In Observatory of Savoie (T.B.D.)

Main activities implemented by the doctoral candidate since the delivery of the last report

Main activities planned to be implemented during the 12 months following the submission of this report

Doctoral Candidate name (first name - LAST NAME)	Enrolment date in the Join Programme*
Benjamin Hendrik Martin LUDWIG	1.9.2012
Name and Institution of the Doctoral Candidate Supervis	sors*

Prof. She-Sheng Xue, Universita di Roma "La Sapienza"/ICRANeT Pescara

Prof. Remo Ruffini, Universita di Roma "La Sapienza"/ICRANeT Pescara

*Title of the EMJD research project**

Electromagnetic fields space-time evolution in gravitationally collapsing stars

Short summary of the EMJD research project* (the summary must include the mandatory mobility elements as well as the taught/training components and the main milestones for the doctoral candidate supervision and/or research deliverables)

The project aims at solving the problem of gravitational energy extraction in collapsing situations. For this purpose a mechanism will be investigated in which gravitational energy is converted first to kinetic, then to electric field energy. Finally this electric field energy is dissipated by means of pair production and subsequent ultrarelativistic expansion of the resulting plasma.

The doctoral candidate participated in the Astrophysics School in Nice/Sophia Antipolis from September 3^{rd} to September 21^{st} 2012 and on a scientific meeting at ZARM/Bremen from January 14^{th} to January 17^{th} 2013. A mobility stay is planned to take place in France.

Main activities implemented by the doctoral candidate since the delivery of the last report

The doctoral candidate has investigated models of spherically symmetric, static matter distributions and spherical collapse in general relativity and reproduced analytical and numerical results known from literature. He is setting up the equations that govern the collapse of a multicomponent charged matter distribution. He is also intensely studying pair creation and plasma oscillation in strong electric fields which might appear in the aforementioned collapsing situations, and reproducing respective results.

Minor activities included the study of radiation hydrodynamics that governs the expansion of the plasma, as well as studies of the historical development of the fields of nuclear density matter and compact objects.

Main activities planned to be implemented during the 12 months following the submission of this report

The activities planned include the construction of successively more elaborate models for the aforementioned collapsing situation, including a realistic modelling of the strong force which appears to play an important role in the mechanism under investigation. Once a realistic collapse has been produced, the next step will be the inclusion of an algorithm that computes the pair production and its back reaction on the collapse. Further refinements would include precisely taking into account beta-processes during collapse and finite temperature effects on plasma oscillations.

• This relevant information should be provided only once for the entire duration of the doctoral candidate EM

Doctoral Candidate name (first name - LAST NAME)	Enrolment date in the Joint
	Programme*
	1 September, 2012
Irina GALSTYAN	
Name and Institution of the Doctoral Candidate Supervis	sors*

Prof. Kjell Rosquist, Stockholm University; Dr. Stefan Fredenhagen, Max Planck Institute for Gravitational Physics

*Title of the EMJD research project**

"Applications of Clifford Algebra in General Relativity and Quantum Field Theory"

Short summary of the EMJD research project* (the summary must include the mandatory mobility elements as well as the taught/training components and the main milestones for the doctoral candidate supervision and/or research deliverables)

I found Quantum Field Theory and Group Theory of particular help while learning Particle Physics especially the Standard Model of Electroweak Unification. A good portion of this course was related to continuous and discrete symmetries and the spontaneous breaking of gauge symmetries. Understanding the nature of discrete symmetries and their violation in weak interactions has been an active field since middle 1950's. The violation of charge conjugation (C) and parity (P) have been incorporated in the Standard Model but the violation of CP and time reversal (TR) is still a mystery and they need to be understood.

I worked on to construct some CP and TR odd observable for the decay modes

 $\Lambda b \rightarrow \Lambda V (1-)$. Since both the decay products are polarized, they offer interesting opportunities to perform tests of CP, TR violation and of CPT invariance on the angular distributions and polarizations of the decay products. I have done the model independent calculations and pointed out several CP, TR and CPT odd observables. As an extension I worked on the 4th generation Standard Model effects in these decay channels. Their precise theoretical and experimental (LHCb) results would give us a chance to find a hint to answer the basic quest, why the Universe is made up of matter only and where anti- matter has gone?

Main activities implemented by the doctoral candidate since the delivery of the last report

To apprehend the bridge between the physics of the small and the large, I started studying dualities especially the Gauge/Gravity duality. My main goal during the last months has been to obtain a better understanding of the higher spin field theories, and with this in mind I got an invitation to participate in the schools at ICTP (The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy), to learn the pedagogical treatment of these subjects in the form of a series of lectures by individual speakers, and the most important and perspective areas where significant progress has been achieved recently.

Main activities planned to be implemented during the 12 months following the submission of this report

Quite remarkably, the AdS/CFT duality became in the last decade an incredibly rich field for the interplay between experts in gauge theory, string theory and gravitational physics. Very recently, after the workshop at the AEI, 5-8 March, 2013, "Quantum Gravity and Fundamental Cosmology", this subject became even more fascinating to study higher

dimensional AdS/CFT. For this purpose I am going through the basic literature on this subject. Actually, the motivation for considering higher-dimensional black holes with a cosmological constant arises from the AdS/CFT correspondence. Most studies of black holes in the AdS/CFT involve dimensional reduction on a compact manifold to obtain a d-dimensional gauged supergravity theory with a negative cosmological constant.

I am also interested in phenomenological consequences of string/M theory and related topics, theories of fundamental interactions, including quantum gravity.

These are the main directions we are going to explore in accordance with our research plans.

Doctoral Candidate name (first name - LAST NAME)	Enrolment date in the Joint Programme*
Onelda BARDHO	01/02/2013

Name and Institution of the Doctoral Candidate Supervisors*

Michel BOER (ARTEMIS/OCA -Nice)

Title of the EMJD research project*

Understanding the physics behind the correlations in Gamma-Ray Bursts data

Short summary of the EMJD research project* (the summary must include the mandatory mobility elements as well as the taught/training components and the main milestones for the doctoral candidate supervision and/or research deliverables)

My subject deals with the understanding of high energy transients and gamma-ray bursts. The goal is to explore the relations that exists between different quantities in GRBs, at X-ray but also at different wavelengths.

The first work will be to continue the catalog of X-ray afterglow since many sources have been observed now.

Then to start to work with correlation in afterglows. And finally, the correlations which are/will be established have to be interpreted in terms of the physics of the objects.

Main activities implemented by the doctoral candidate since the delivery of the last report

- General meeting of the National High Energy - 11-12 February 2013 at CNES headquarters in Paris

Main activities planned to be implemented during the 12 months following the submission of this report

- I will attend the next school of Erasmus Mundus.
- *IVth School of Astroparticle Physics, May 27th June 1st, 2013, OHP, Saint Michel l'Observatoire*
- School of Gravitational Waves, 1 July 2013 5 July 2013, Warsaw, Poland
- Preparation of a comprehensive catalog of X-ray afterglow properties together with Researchers in France, Italy and Australia

- Participation to the annual meeting of the French FIGARO - Italian cooperation on GRB properties

PART C: EM MOBILITY DATABASE PRINT-OUTS

The doctorate fellowship candidates' data extracted from the "Erasmus Mundus Mobility Database" must contain the most up to date mobility tracks of all candidates enrolled in the edition/s of the Joint Doctorate covered by this Progress Report("mobility" hyperlink under each individual doctoral candidate name).

In case that the project requests the payment of the further pre-financing the mobility database must include all the necessary and updated financial information concerning payments of the Doctoral Candidates. The form/s must be signed by the project co-ordinator. The financial information in the mobility database must be consistent with the information indicated in PART E of this report.

NEW: EACEA Mobility Tool – User Manual Action 1 & 2

http://iis-cfprod.eacea.cec.eu.int/mobility/docs/EACEA-Mobility-database-guidelines-EM.pdf

Scholarship holders' data

(output retrieved from the home page of the course edition concerned)

🌈 EAC Executive Agency Erasmus Mundus database Phase 18:	2 - Windows Inte	ernet Explorer		
😋 💽 🗢 🙋 http://iis-cfprod.eacea.cec.eu.int/mobility/cours_detail.cfr	n?crs=159252&yr=2	2012	💌 🗲 🗙 🚮 God	ogle
File Edit View Favorites Tools Help				
🚖 Favorites 🛛 🚖 🔊 EACEA - Helpdesk 🔊 Web Slice Gallery 👻				
🔠 👻 🌈 EAC Executive Agency Er 🗴 DS De Standaard	Erasmus Mu	ndus - Action 1 b	🏠 • 🔊 · 🛛	🗈 🖶 🔻 Page 🕶 Safety 🕶 Tools 👻 🔞 👻 🎽
2012 (snow/mde)			01/07/2010	3170672013
Country	Consortium	n partners (show/hide	?)	Status
Coordinator (show/hide)		Telephone	Email
Contractor (show/hide)	1		Telephone	Email
Doctoral Candidates Main List [+] Reserve List [+] Non-selected List [+] Drop-	out List [+] No	n-Scholarshin holders l	+1 L Cancelled application	ns [+]
Category	Default quota	Specific Quota	Persons/Qta	Add to a list
Category A	5	5	0 / 5	Add to selected category
Category B	3	3	0/3	Add to selected category
Western Balkans and Turkey Window	1	1	0 / 1	Add to selected category
		Validate		
Lock and Submit Progra	ss report	F	inal report	UnLock
<				
				cal intranet 🦙 🔹 100% 🔹 🛒
🛃 start 🖉 🖉 🚱 😡 Alicrosoft 🔹 🌈 EAC Execut	iv 🔛 EMMC	Appl . 🛛 📲 2011 - Co	onso 🛛 💾 sga_emjd_an	🔄 emmc_report FR 🔇 🚱 14:26
🛃 start 🦳 🤗 🔞 💽 3 Microsoft 🔸 🏉 EAC Execut	iv 📑 EMMC	Appl . 🛛 🗃 2011 - Co	onso 🛛 🗃 sga_emjd_an	🖻 emmc_report FR 📢 闷 14:26

To be used for the 2nd Pre-Financing request/Progress Report

Non scholarship holders' data (output retrieved from the "<u>Non-Scholarship holders</u>" list of the course edition concerned)

€ • €	http:// iis-cf p	orod.eacea.cec.e	eu.int/mobility/person_list_crs.cfm?	type=DC&li	st=78xyr=2	2010		*	≁ • ×	🔧 Google				
Edit View		Tools Help												
	_) Web Slice Gallery 👻								_			-
		cy Er 🗙 DS	De Standaard	Erasmus	Mundus -	Action 1	o				🖶 🔻 Page	e 🕶 Safety		• 🕜
octoral Cano	lidates													
iain List Res	erve List	Non-selecte	d List Drop-out List Non-	Scholarsh	nip holde	ers Ca	ncelled ap	plication	5					
Agreeme	ont Nbr				Tit	lo						امم	ication Y	oar
2010-I			Algebra, Geomet	ry and Nu			int Doctor	ate (FM I	DMOB)		_	мррі	2010	ear
2010-	0000		Agebra, Geomet	ary and nu	inder m	icory so	Int Doctor	ate (Eno	omobj				2010	
ategory B =	1 / 20	0 - Add to thi	s category								(sho	ow/hide c	ustom ph	ase d
amily Name	Gender	Nationality	University of origin	Resid.	Rank	View	Request	Modify	Move	Report	Mobility	Mobility	Delete	His
First Name		that a	the base of the stand of the	11-1-1				modify		data		_	delete	1.7.
SIVIERO	M	Italy	Universita degli studi di Padova	Italy	1	view	request	mouny	move	data	mobility		detete	his
														-
ategory A =	= 0 / 20	0 - Add to thi	s category								(sho	ow/hide c	ustom ph	ase d
					Ехро	ort list								
Category I	В													
Category	A													
PDF Excel														
PDF Excel														
PDF Excel														

To be used for 2nd Pre-Financing request, Progress

SEE MOBILITY_CYCLE_III.PDF

PART D: TEMPLATE OF THE EMPLOYMENT CONTRACT(S) USED

This template needs to be sent only once with the first progress report. If applicable, any possible changes/adaptations of it should be reported and justified in the reports following the first progress report.

SEE ANNEXE-7.PDF

PART E: FINANCIAL DECLARATION ON THE USE OF THE EM GRANT

(To be filled in <u>only in case that the report includes a request forfurther pre-financingfor an</u> <u>ongoing specific grant agreement</u>)

Specific Grant Agreement Number: -

A	Total amount of the Grant:	
В	Amount of the first pre-financing payment received	
С	Amount spent by the consortium	
D	Percentage of the 1 st pre-financing used (C / B)*	

* Please note that the second pre-financing payment <u>may only be requested</u> if 70% or higher of the first pre-financing has been spent.

BENEFICIARY DECLARATION

I, the undersigned, hereby irrevocably declare that:
 the information contained in this report is accurate and in accordance with the facts.
 the duly updated doctoral candidates data extracted from the "Erasmus Mundus Mobility Database" signed by the joint programme's co-ordinatorincludes the accurate mobility information on each doctoral candidate
– the information has been checked and approved by the partners involved.
 the amounts are accurate and reflect the true expenditures of the specific grant agreement concerned
 the duly updated doctoral candidates data extracted from the "Erasmus Mundus Mobility Database" signed by the joint programme's co-ordinator <u>includes the</u> <u>accurate fellowship amounts spent on each doctoral candidate.</u>
Signature of the beneficiary's legal representative*:
Name and position (in capital letters):
Date: Le Président de lutinities de Nict Sophiscintie Signature: Frédérique VIBAL 7.1996

**if the signatory is not the legal representative (as indicated to the Agency) add a valid document confirming their authorisation to sign on his/her behalf*

European Education, Audiovisual & Culture Commission Executive Agency

 Report:
 Progress Report

 Agreement number:
 2010-0011

 Project name:
 International Relativistic Astrophysics Doctorate Program

 Project Edition:
 2012

 Activity code:
 EMJDMOB

Agreement number: 2010-0011 Page 1 of 4

	29100.00			29100.00			29100.00	145500 00			25600.00			25600.00			25600.00	76800.00	
Mobility Mobility Start Date End Date		03-09-2012 22-09-2012 Central core physics and kinematics of the massive starburst region R 136 in 30 Doradus using VLTI	23-09-2012 15-03-2013 Central core physics and kinematics of the massive starburst region R136 in 30 Doradus using VLTI		03-09-2012 22-09-2012 Cosmology with Gamma-Ray Bursts	23-09-2012 15-03-2013 Cosmology with Gamma-Ray Bursts			03-09-2012 22-09-2012 Gamma-ray bursts and cosmological structures	23-09-2012 15-03-2013 Gamma-ray bursts and cosmological structures		03-09-2012 22-09-2012 Discrete and Fractal Cosmologies	23-09-2012 15-03-2013 Discrete and Fractal Cosmologies		03-09-2012 22-09-2012 Critical and Overcritical Electromagnetic Fields	23-09-2012 15-03-2013 Critical and Overcritical Electromagnetic Fields			01-02-2013 15-03-2013 Astrophysics of Gamma-Ray Bursts and Supernovae
Country		France	France		France	Italy			France	Italy		France	Italy		France	Italy			France
Host institution/ University		UNIVERSITE D E NICE - SOP HIA ANTIPOLI	OBSERVATOIRE DE LA CÔTE D'AZUR		UNIVERSITE D E NICE - SOP	UNIVERSITÀ D I FFRRARA			UNIVERSITE D E NICE - SOP	SAPIENZA - U NIVERSITÁ DI ROMA		UNIVERSITE D E NICE - SOP HIA ANTIPOLI	SAPIENZA - U NIVERSITÁ DI ROMA		UNIVERSITE D E NICE - SOP HIA ANTIPOLI	SAPIENZA - U NIVERSITÁ DI ROMA			OBSERVATOIRE DE LA CÔTE D'AZUR
Institution / University Country of origin		IASBS UNIVERSITY Iran	IASBS UNIVERSITY Iran		MUMBAI UNIVERSITY India	MUMBAI UNIVERSITY India		didates	ROYAL INSTITUTE OF Sweden TECHNOLOGY	ROYAL INSTITUTE OF Sweden TECHNOLOGY		FREIE UNIVERSITY B Germany ERLIN	FREIE UNIVERSITY B Germany ERLIN		UNIVERSITY OF ERLA Germany NGEN-NURNBERG	UNIVERSITY OF ERLA Germany NGEN-NURNBERG		idates	DOCTORAL CANDIDATES - WESTERN BALKANS AND TURKEY WINDOW BARDHO ONELDA F Albanian UNIVERSITY OF TIRA Albania NA
Gender Nationality Institu of origin	A :2	Iranian IAS	Iranian IAS		Indian MU	Indian MU		Total for Gatemory A : 12 mobilities by 5 Doctoral Candidates	-CATEGORY B M French RO TE	French RO' TE		German FRE ERI	German FRE ERI		German UN: NG	German UN: NG		Total for Category B: 6 mobilities by 3 Doctoral Candidates	iTERN BALKANS Albanian UN
	Total for GOMES DE OLIVEIRA, FERNANDA : 2	IAB F	IAB F	NAB : 2	HA F	1A F	. 2	• 12 mobilities	DATES - CAT IME M	IME	NE : 2	DRIK M	DRIK M	2 1 1 1	ECKHARD M	ECKHARD M	IARD : 2	: 6 mobilities t	DATES - WES
e First Name	MES DE OLIV	I ZEINAB	I ZEINAB	Total for KHORRAMI, ZEINAB: 2	DISHA	DISHA	Total for SAWANT, DISHA: 2	Catedory A	DOCTORAL CANDIDATES ENDERLI MAXIME	MAXIME	Total for ENDERLI, MAXIME: 2	HENDRIK	HENDRIK	Total for LUDWIG, HENDRIK : 2	ECK	ECKF	Total for STROBEL, ECKHARD : 2	Category B.	XAL CANDIDA ONELDA
Family Name	Total for GC	KHORRAMI	KHORRAMI	Total for KH	SAWANT	SAWANT	Total for SA	Total for (DOCTOR ENDERLI	ENDERLI	Total for EN	LUDWIG	LUDWIG	Total for LU	STROBEL	STROBEL	Total for ST	Total for	DOCTOR BARDHO

Agreement number: 2010-0011 Page 2 of 4

	14300.00	14300.00	236600.00	236600.00
Mobility Mobility Start Date End Date	İ			
Country				l
Host institution/ University		lates		
Country		octoral Candic		l
Institution / University Country of origin		Total for Western Balkans and Turkey Window: 1 mobilities by 1 Doctoral Candidates	idates	S
Gender Nationality		d Turkey Window:	Total of 19 mobilities by 9 Doctoral Candidates	Global Total: 19 mobilities for 9 persons
First Name	ONELDA : 1	rn Balkans anc	lobilities by 9	: 19 mobiliti
Family Name	Total for BARDHO, ONELDA: 1	Total for Weste	Total of 19 m	Global Total

Date (day/month/year):

1

 $\mathcal{N}SO3\mathcal{AO}3\mathcal{AOA}$

Signature:

Stamp of the co-ordinating institution: