

Bando di concorso a n. 10 assegni di  
collaborazione ad attività di ricerca  
INdAM-COFUND-2012  
“INdAM Fellowships  
in Mathematics and/or Applications  
cofunded by Marie Curie actions”

## 1 Assegni di ricerca INdAM-COFUND-2012

L'Istituto Nazionale di Alta Matematica "Francesco Severi" (INdAM), nell'ambito del progetto europeo INdAM-COFUND-2012, bandisce un concorso a n. 10 assegni di collaborazione ad attività di ricerca, suddivisi in n. 5 assegni di tipo *Outgoing*, n. 4 assegni di tipo *Incoming* e n. 1 assegno di tipo *Reintegration*.

Gli assegni sono banditi ai sensi dell'art. 22, comma 1, della legge 30 dicembre 2010 n.240 e hanno durata biennale.

Gli assegni di tipo *Outgoing* consistono in una fase iniziale della durata di 18 mesi da trascorrere presso una Istituzione ubicata all'estero, seguita da un'ulteriore fase di rientro della durata di 6 mesi da trascorrere presso una Istituzione ubicata in Italia.

Gli assegni di tipo *Incoming* o *Reintegration* hanno durata di 24 mesi, da trascorrere presso una Istituzione ubicata in Italia.

Le Istituzioni, scelte dai candidati, possono essere un ente pubblico (Università, ente di ricerca, ente pubblico economico o non economico. . .) o un ente privato (incluse le imprese).

Dal momento del conferimento dell'assegno, i vincitori hanno diritto al titolo di assegnista di ricerca Marie Curie (*Marie Curie fellow*) dell'Istituto Nazionale di Alta Matematica.

Gli assegnisti sono tenuti a farne menzione in tutte le pubblicazioni scientifiche che riguardano l'attività di ricerca svolta durante il periodo di godimento dell'assegno, con la dizione "Titolare di un Assegno di Ricerca Marie Curie dell'Istituto Nazionale di Alta Matematica".

## 2 Condizioni di partecipazione

I cittadini non italiani che abbiano avuto in Italia la propria residenza legale e la propria attività principale (studio, lavoro, etc.) per almeno tre dei quattro anni precedenti la scadenza per la presentazione della domanda, sono considerati come assimilati ai cittadini italiani (cfr. il concetto di nazionalità assimilata) ai fini del presente bando. Non si considerano brevi soggiorni, quali ad esempio le vacanze.

### 2.1 Condizioni per gli assegni di tipo *Outgoing*

I candidati per gli assegni di tipo *Outgoing* devono essere cittadini italiani o assimilati e non devono aver risieduto o svolto la propria attività principale nel Paese prescelto per l'attività oggetto dell'assegno per più di 12 mesi nei tre anni precedenti la scadenza per la presentazione della domanda. Non si considerano brevi soggiorni, quali ad esempio le vacanze.

## **2.2 Condizioni per gli assegni di tipo *Incoming***

I candidati per gli assegni di tipo *Incoming* devono essere cittadini di uno Stato membro dell'Unione Europea diverso dall'Italia, di uno Stato associato, oppure di uno Stato terzo, i quali non abbiano avuto residenza in Italia né svolto la loro principale attività (studio, lavoro, etc.) in Italia per più di 12 mesi nei tre anni precedenti la scadenza per la presentazione della domanda. Non si considerano brevi soggiorni, quali ad esempio le vacanze.

## **2.3 Condizioni per gli assegni di tipo *Reintegration***

I candidati per gli assegni di tipo *Reintegration* devono essere cittadini italiani che abbiano svolto ricerca in un Paese terzo per almeno 3 anni nei 4 anni precedenti la scadenza per la presentazione della domanda. Non si considerano brevi soggiorni quali ad esempio le vacanze.

## **2.4 Condizioni generali**

Per poter partecipare al concorso, il candidato dovrà soddisfare, nel giorno di scadenza per la presentazione della domanda, almeno una delle seguenti condizioni:

1. essere in possesso di un titolo di Dottorato di Ricerca, indipendentemente dal tempo impiegato per il conseguimento;
2. avere effettuato attività di ricerca a tempo pieno per quattro anni o periodo equivalente, incluso il periodo di avviamento alla ricerca, in un periodo di tempo successivo al conseguimento del titolo di studio richiesto per l'accesso al Dottorato di Ricerca nel paese in cui tale titolo è stato conseguito, o nel paese prescelto per lo svolgimento delle attività oggetto della domanda (indipendentemente dal fatto che fosse previsto il conseguimento del Dottorato di Ricerca).

È esclusa la partecipazione al concorso di candidati che alla data di scadenza del presente bando, o all'accettazione dell'assegno, risultino professori ordinari, professori associati o ricercatori presso università italiane, ricercatori degli Enti pubblici di ricerca o professori di università straniere con posizioni a tempo indeterminato ("tenured positions"). È inoltre esclusa la partecipazione al concorso dei vincitori di una borsa INdAM-COFUND, o di un assegno INdAM-COFUND-2012, assegnati tramite uno dei bandi precedenti, e di coloro che, alla data di scadenza del presente bando, abbiano usufruito per più di 4 anni complessivi di assegni di ricerca banditi ai sensi dell'art. 22 comma 1 della legge 30 dicembre 2010 n.240.

Il candidato non potrà presentare domanda per più di un assegno tra quelli offerti nel presente bando.

### 3 Condizioni dell'assunzione

Le condizioni dell'assunzione degli assegnisti sono quelle indicate nell'Annex 1 del Contratto INdAM-COFUND-2012, paragrafo B.2 "Management of the programme", 2.1 "Appointment conditions of selected fellows", così come riportato nell'Allegato 2.

L'importo totale dell'assegno è la somma delle seguenti componenti:

- un importo, composto dalla *living allowance* e dalla *mobility allowance*, che verrà erogato all'assegnista. Non è prevista *mobility allowance* per gli assegnisti *Outgoing* durante la fase di rientro.

La *living allowance* ammonta a 31200 EUR/anno.

La *mobility allowance* ammonta a:

- 700 EUR/mese, per gli assegnisti senza famiglia;
- 1000 EUR/mese, per gli assegnisti con famiglia.

A tal fine la nozione di "famiglia" corrisponde alla definizione del People WP 2012: "Family is defined as persons linked to the researcher by (i) marriage, or (ii) a relationship with equivalent status to a marriage recognised by the national legislation of Italy or of the nationality of the researcher; or (iii) dependent children who are actually being maintained by the researcher."

Per gli assegnisti *Outgoing* durante la fase *Outgoing* verrà applicato, sia alla *living allowance* che alla *mobility allowance*, un coefficiente che dipende dal paese di destinazione, sulla base della Tabella 3.2, Annex 3, People Work Programme 2012.

- un importo, composto dalla *travel allowance*, che verrà erogato direttamente all'assegnista quale rimborso delle spese di viaggio, fino a un massimo indicato in tabella.

Gli assegnisti di tipo *Reintegration* hanno diritto a una travel allowance, mentre gli assegnisti di tipo *Incoming* e *Outgoing* hanno diritto a due travel allowance.

L'ammontare della travel allowance è determinato in funzione della distanza in linea d'aria tra la località di provenienza del ricercatore e l'istituzione ospitante, come illustrato nella Tabella 3.2, Annex 3, People Work Programme 2008.

- un contributo al costo della ricerca (RCC1) che verrà erogato dall'INdAM all'istituzione ospite nell'interesse dell'assegnista; l'importo è pari a 5800 EUR/anno.
- un contributo al costo della ricerca (RCC2) che verrà erogato dall'INdAM direttamente all'assegnista, quale rimborso di: spese per l'acquisto diretto di materiale (escluso hardware) o beni di consumo necessari per la ricerca; spese di viaggio, vitto e alloggio per la partecipazione a eventi scientifici. L'importo è pari a 2000 EUR/anno.

Gli importi medi annuali di ciascuna componente per i diversi tipi di assegno sono descritti nella Tabella 1 e sono precisati nell'Allegato 4. Gli importi totali effettivi potranno differire da quelli riportati in tabella nella voce "travel allowance", in quanto

| <i>Componente</i>                     | <i>Outgoing</i>  | <i>Incoming</i>  | <i>Reintegration</i> |
|---------------------------------------|------------------|------------------|----------------------|
| Living allowance (EUR/anno)           | [*] 33000        | 31200            | 31200                |
| Mobility/Travel allowance (EUR/anno)  | [*] 9500         | [*] 11850        | [*] 11850            |
| Research Cost Contribution (EUR/anno) | 7800             | 7800             | 7800                 |
| <b>Totale (EUR)</b>                   | [*] <b>50300</b> | [*] <b>50850</b> | [*] <b>50850</b>     |

Tabella 1: Importo medio annuo delle componenti dell'assegno. Gli importi contrassegnati con [\*], il cui ammontare effettivo dipende dalle circostanze specifiche di ciascun assegnista, sono stimati sulla base della distribuzione dei precedenti borsisti COFUND.

gli importi tabellari sono quelli massimi. Inoltre, le voci indicate con un asterisco sono stimate, e possono variare in base alle circostanze specifiche di ciascun assegnista.

L'importo indicato in tabella per la *travel allowance* degli assegni di tipo *Reintegration* è la media annua dell'importo massimo; resta inteso che l'unica *travel allowance* sarà versata in un'unica soluzione.

La liquidazione dell'importo dell'assegno avverrà in rate mensili posticipate. Sono ammessi rimborsi delle missioni scientifiche svolte nell'ambito delle attività dei Gruppi Nazionali di Ricerca Matematica. Ai vincitori dell'assegno è garantita l'iscrizione ai Gruppi Nazionali di Ricerca, anche in deroga ai termini previsti.

## 4 Presentazione domanda

Le domande dovranno essere presentate entro le ore 17 del giorno 10 dicembre 2015, fuso orario di Roma, mediante una apposita modulistica elettronica predisposta all'interno del sito internet dell'INdAM

<http://cofund.altamatematica.it>

All'atto della domanda il candidato dovrà, a pena di esclusione dal concorso, compilare tutte le schede previste e allegare i documenti richiesti, con l'unica possibile eccezione della/e dichiarazione/i firmata/e del/dei Responsabile/i della/e Istituzione/i.

Queste ultime dichiarazioni dovranno essere trasmesse, sempre all'interno del sito internet <http://cofund.altamatematica.it>, entro e non oltre le ore 17 del 15 febbraio 2016, fuso orario di Roma, a pena di esclusione dal concorso. A tal fine, fino alla suddetta scadenza, sarà data possibilità ai candidati di riaprire il modello on-line di domanda, limitatamente alla parte riguardante la trasmissione di tali documenti.

## 5 Procedure di Valutazione

Le procedure di valutazione sono quelle indicate nell'Allegato 1.

La graduatoria dei vincitori è costituita dai candidati che risulteranno compresi entro il numero degli assegni messi a concorso. Gli assegni che si rendessero disponibili per rinuncia o decadenza dei vincitori, o per altro motivo, potranno essere assegnate ai candidati risultati idonei nell'ordine della graduatoria. La graduatoria resterà valida per 90 giorni a partire dalla data di affissione all'albo dell'Istituto dell'esito del concorso.

## **6 Esito**

L'esito del concorso sarà notificato ai candidati che risulteranno nella graduatoria dei vincitori e sarà affisso all'albo dell'Istituto.

## **7 Conferimento**

Gli assegni sono conferiti con provvedimento del Presidente dell'INdAM. Entro 15 giorni dalla data del ricevimento della comunicazione per posta elettronica certificata attestante l'esito del concorso, i vincitori dovranno far pervenire all'Istituto Nazionale di Alta Matematica "F. Severi", P.le Aldo Moro, 5 (Città Universitaria) – 00185 ROMA, una dichiarazione scritta di accettazione dell'assegno alle condizioni comunicate.

La comunicazione deve essere trasmessa per raccomandata con avviso di ricevimento, oppure allegata a posta elettronica certificata (PEC) inviata all'indirizzo [altamatematica@pec.it](mailto:altamatematica@pec.it), oppure a mano con ricevuta di consegna. Il mancato ricevimento da parte dell'Istituto di tale dichiarazione entro i termini stabiliti implicherà automaticamente la rinuncia all'assegno.

Con detta dichiarazione i vincitori dovranno dare esplicita assicurazione, sotto la propria personale responsabilità, che non usufruiranno durante tutto il periodo dell'assegno di altre borse di studio o analoghi assegni o sovvenzioni, che non percepiranno stipendi o retribuzioni di qualsiasi natura, e di non essere esclusi dalla partecipazione al concorso in base a quanto specificato nell'articolo 2.4 "Condizioni generali" del presente bando. Tale conferimento sarà contestualmente comunicato al/ai responsabile/i della/e/ Struttura/e ospitante/i.

Per i vincitori del concorso, al momento dell'accettazione del conferimento, dovranno essere allegati i seguenti documenti:

1. certificato di residenza in carta libera;
2. certificato di conseguimento del titolo di Dottore di Ricerca, o documentazione comprovante i requisiti di quattro anni di attività di ricerca a tempo pieno o periodo equivalente;
3. certificato di matrimonio, o equivalente, o certificato di stato di famiglia, o equivalente, per chi ha diritto a ricevere la "mobility allowance" maggiorata;

I vincitori, nei casi previsti dalla normativa vigente, potranno presentare al posto dei suddetti certificati una dichiarazione sostitutiva di certificazione.

## 8 Obblighi del titolare

Il titolare dell'assegno dovrà :

- prendere servizio entro la data indicata nella lettera di conferimento;
- svolgere regolarmente e con assiduità le ricerche presso la sede/le sedi richiesta/richieste all'atto della domanda, in particolare presenziando con regolarità agli eventi scientifici che vi si svolgono;
- consegnare al Presidente dell'INdAM, entro il tredicesimo mese dall'inizio della presa di servizio, una relazione sulle attività svolte il primo anno.

Gli assegnisti, pur essendo tenuti a partecipare ad alcune iniziative dell'Istituto Nazionale di Alta Matematica, svolgeranno la loro attività di ricerca in piena autonomia e senza orario di lavoro predeterminato, nella/e sede/i prescelta/e.

Gli assegni non sono cumulabili con stipendi o retribuzioni di qualsiasi natura. A nessun titolo potranno essere attribuiti all'assegnatario ulteriori compensi o contributi di qualsiasi natura che facciano carico all'Istituto, salvo quanto previsto dall'Allegato 3.

### 8.1 Missioni

In linea generale, il progetto dovrà svolgersi presso le strutture delle organizzazioni ospite, così come previsto dalla tipologia di assegno corrispondente. In alcuni casi tuttavia può essere giustificato come parte della collaborazione che l'assegnista svolge un periodo di missione in un luogo diverso.

I ricercatori non possono trascorrere più del 30% del periodo di durata dell'assegno lontano dalla organizzazione ospitante, o dalla organizzazione partner nella fase iniziale di un assegno di tipo *Outgoing*, a meno che tale missione non sia indispensabile per l'esecuzione del progetto e non sia stata esplicitamente prevista nella domanda.

Nel caso in cui tali missioni non siano state previste nella domanda, occorre richiedere l'autorizzazione in anticipo fornendo adeguate motivazioni. La richiesta dovrà considerarsi autorizzata solo dopo il ricevimento dell'autorizzazione scritta da parte del Presidente dell'INdAM.

Un'eccezione a questa regola riguarda missioni di breve durata (massimo 10 giorni lavorativi per missione), per le quali non è necessario richiedere l'autorizzazione dell'INdAM, a condizione che tali missioni non superino cumulativamente il 10% della durata del progetto.

## **8.2 Interruzioni o sospensioni del progetto**

L'INdAM deve essere informato immediatamente di interruzioni nella permanenza dell'assegnista presso l'istituzione ospitante, e dovranno essere fornite giustificazioni appropriate.

Eventuali sospensioni dell'assegno potranno essere decretate, in casi eccezionali, dal Presidente dell'INdAM, su richiesta dell'assegnista, sentito il Consiglio di Amministrazione dell'Istituto.

## **9 Piano di attività degli assegnisti**

Ciascun assegnista è tenuto a svolgere il proprio piano di attività nella versione presentata all'atto della domanda, secondo le indicazioni contenute nell'Annex 1 del Contratto INdAM-COFUND-2012, paragrafo B.3 "Relevance and Impact to "Life-long training and Career development", 3.3 "Career development support to fellows", così come riportato nell'Allegato 3.

## **10 Inadempienze e cessazione dell'assegno**

In caso di inadempienze da parte del titolare dell'assegno o di assenza non autorizzata dalla sede, il Presidente dell'INdAM potrà inviare una lettera di richiamo, accompagnata eventualmente da una sanzione amministrativa pari al più ad una mensilità dell'assegno. Nel caso di gravi inadempienze, oppure di inadempienze successive all'invio di lettera di richiamo, il Presidente disporrà la cessazione anticipata dell'assegno, sentito il Consiglio di Amministrazione dell'Istituto.

## **11 Sospensione temporanea per particolari motivi**

Il godimento dell'assegno di ricerca può essere sospeso in via temporanea nel caso che il suo titolare debba assentarsi per gravidanza e puerperio, per malattia di durata superiore ad un mese o per altro grave motivo.

## **12 Norme di rinvio**

Per quanto non esplicitamente sopra menzionato, è valido quanto previsto dagli allegati 1, 2, 3, 4 i quali costituiscono parte integrante del presente bando.



# **Allegato 1**

## **B.1 Selection process for the fellows under the programme**

### **1.1 Transparency of the selection process for the fellows under the programme**

The calls for the fellowships of the programme will be announced on the INdAM and on the dedicated website, and will be promoted and advertised through the EURAXESS website and the main international websites dedicated to the research and training programmes in mathematics and/or its applications. In particular the calls will be sent to the ERCOM (European Research Centres on Mathematics) site, to the sites of the European Mathematical Union, of the main national Mathematical Societies, and to the main international research portals.

Each call will contain precise information about the evaluation and the selection process, in particular about the eligibility and evaluation criteria and the corresponding scores.

A Guide for applicants, available on the INdAM and on the dedicated website, will provide the essential information for submitting a proposal to each call. The part giving the basic data on implementation (deadline, budget, special conditions etc) is also posted as a separate document ("call announcement").

Applicants must consult these documents. The Guide will also contain an indicative timetable for each call including expected dates for evaluation of the proposals and for sending scheduled communications to applicants. The Guide will give all details on headings, subheadings, scores, thresholds of evaluation criteria, redress procedures.

Applications are submitted on-line, by completing, before the call deadline, an electronic application form which can be found on the dedicated web-site. For the application to be valid, the candidate must complete all the required sections of the application form, and submit a document in PDF format containing the scientific and technical information on the proposal, a CV, the research program and a Personal Career Development Plan.

Within three working days from the call deadline, the INdAM will send an acknowledgement of receipt to the email address of the candidate given in the submitted proposal.

With the exception of the documented full-time equivalent research experience for candidates without a Doctoral degree, which is checked by the Panel, eligibility criteria for each proposal are checked by the INdAM staff before the evaluation begins. Eligibility criteria for the researchers are listed under section 1.3.

Proposals which do not fulfil eligibility criteria will not be included in the evaluation.

If the candidate proposal is non eligible, INdAM staff will send her/him a letter informing of the rejection of the proposal and containing the reasons for the decision.

All eligible proposals will be evaluated by independent referees. The evaluation criteria and procedures are described later on (1.3).

Within three working days from the completion of the evaluation by the referees, each applicant will receive a letter containing initial information on the results of the evaluation, including the scores and the comments of the referees.

The applicant will also be informed that a redress procedure is available. The redress procedure is concerned with the eligibility-checking process, and how the proposal was handled; it is not an automatic re-evaluation, and the judgement of appropriately qualified experts is not called into question. Once the applicant has received the letter containing initial information on the results of the eligibility checks, or showing the outcome of the evaluation by experts of his/her proposal, he/she may submit a request for redress if he/she believes that the results of the eligibility checks are incorrect (eligibility stage), or if he/she feels that there has been a shortcoming in the way his/her proposal has been evaluated that may affect the final decision on whether to fund it or not (evaluation stage). In both stages, the applicant will be given at least a one week deadline for submitting a redress request. The redress requests are examined by a Redress Committee appointed by the Consiglio di Amministrazione of INdAM. The Redress Committee is composed by INdAM staff and independent experts. The Redress Committee operates independently on the Panel; the only member that sits in both bodies is the Secretary, who has no voting rights. The committee's role is to ensure a coherent interpretation of such requests, and equal treatment of applicants.

Requests must:

- Be related to eligibility checks, or to the evaluation process.
- Include a clear description of the grounds for complaint.
- Be received within the time limit specified on the letter(s).

The Redress Committee reviews the case and recommends an appropriate course of action to the Consiglio di Amministrazione. On the basis of the recommendations of the Redress Committee, the Consiglio di Amministrazione decides whether to dismiss the redress request or to take appropriate actions. The candidate is promptly informed of the decision of the Consiglio di Amministrazione. If the redress request is related to eligibility decisions, then the Consiglio di Amministrazione may dispose that the candidate is admitted to the evaluation phase. In case the redress request is related to the evaluation phase, if there is clear evidence of a shortcoming in evaluation procedure that could affect funding decisions, the Consiglio di Amministrazione may dispose that the Panel enacts a new evaluation procedure for all or part of the proposal.

At the end of the evaluation procedure each applicant will receive a communication containing the final ranking and the comments of the Panel in charge of the final decision.

Official letters are then sent to the successful candidates, informing them of the conditions, the rules and the obligations regarding the fellowships.

**1.2 Composition and organisation of the selection committees** The evaluation of proposals is carried out by the Panel with the assistance of independent experts (referees). The body in charge of the final decision on the selection in each call is a Panel

appointed by the Consiglio di Amministrazione of INdAM according to the following guidelines.

- The composition of the Panel must ensure:
  - A high level of expertise
  - An appropriate range of competencies in mathematics and/or its applications
  - One or more representatives of private organisations
  - A gender balance (at least one third)
  - Two or more non-national experts (and at least one third).
- Each Panel is in charge only for one call.
- The composition of the Panel must avoid any possible conflict of interests.

The Panel will be composed by at least 5 voting members, and a Secretary, who is the sole non-voting member. Decisions will be reached with a majority vote.

In constituting the Panel, the Consiglio di Amministrazione also takes account of their abilities to appreciate the industrial and/or societal dimension of the proposals. Members of the Panel must also have the appropriate language skills required for the proposals to be evaluated.

The Panel establishes a list of national and international experts (referees) sufficiently ample to cover all the fields of interest for the calls. Members of the Panel are not included in the list of referees. Referees are experts who in the opinion of the Panel are sufficiently qualified to evaluate proposals. The role of referees is to evaluate the proposals that the Panel assigns them, following the rules detailed below.

The list is drawn up to ensure:

- A high level of expertise
- An appropriate range of competencies in mathematics and/or its applications
- A reasonable gender balance (at least one third)
- A reasonable balance of national and non-national experts.
- Regular rotation of experts.

In constituting the lists of experts, the Panel also takes account of their abilities to appreciate the industrial and/or societal dimension of the applicant proposals.

Experts will be chosen from a dedicated database, mainly implemented through INdAM lists of prominent mathematicians such as:

- nationals: full professors in Italian Universities and researchers in Research Organisations

- non nationals: visiting professors, invited lecturers, invited speakers.

Moreover INdAM may request the access to the Commission database of experts, according to the **Rules for submission of proposals, and the related evaluation, selection and award procedures**<sup>1</sup>.

The database may be made available, on request, to research funding bodies with a public service mission, in the Member States and countries associated to the framework programmes, and to other structures implementing EU research activities, created in line with the provisions of the Treaty. Decisions on granting such access will be made by the Director-General of DG Research, or by his representative(s).”

Each Panel may at any time include in the database any individual with the appropriate skills.

The Panel allocates each proposal to two referees, taking account of the fields of the candidate proposals and avoiding conflicts of interest. Referees are all internationally recognised experts and are appointed by the Panel freely on the basis of their scientific qualification, without any nationality restrictions.

The only requirement for referees is scientific qualification according to international standards. Moreover, as non national candidates are expected to apply for incoming fellowships while Italian candidates are mostly interested in outgoing or reintegration fellowships, no nationality bias should be expected.

The management costs of the project include payment of travel and living expenses for members of Panels. Referees evaluate remotely through a web platform which can be used to access remotely the projects and give the evaluation

As already pointed out, the members of the Panel and the referees will be selected in order to ensure at least one third of representatives per gender. In fact we will aim to reach a full fifty-fifty gender balance.

The list of referees drawn up by the Panel before the evaluation begins will cover all the research topics corresponding to the candidate proposals.

The composition of the Panel and of the list of the referees will ensure an adequate participation of non national experts from different countries, with a proportion of at least 60%, and of experts from the private sector.

In appointing the members of the Panel, and in drawing up the list of referees, it will be taken account of their abilities to appreciate the industrial and/or societal dimension of the applicant proposals.

The final judgement of merit determined by this Panel is binding and non-negotiable.

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<sup>1</sup>COMMISSION DECISION of 28 February 2011 amending Decision C(2008) 4617 related to the rules for proposals submission, evaluation, selection and award procedures for indirect actions under the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007-2013) and under the Seventh Framework Programme of the European Atomic Energy Community (Euratom) for nuclear research and training activities (2007-2011) - [ftp://ftp.cordis.europa.eu/pub/fp7/docs/fp7-evrules\\_en.pdf](ftp://ftp.cordis.europa.eu/pub/fp7/docs/fp7-evrules_en.pdf)

The Panel allocates each proposal to two referees from the list, taking account of the fields of expertise of them, and avoiding conflicts of interest. Each proposal will be assessed independently by the two referees. The proposal will be evaluated against pre-determined evaluation criteria.

In case of strongly different opinions between the two referees, the Panel can allocate the proposal to a third referee, in particular when the difference between the scores of the referees exceeds 30 per cent.

The main task of the Panel is to establish a ranked list of the proposals which passed all evaluation thresholds.

To this end, the Panel takes the scores and comments given by the referees, combining them according to the weights described in the next section of this document, and prepares a ranked list. All the decisions of the Panel are taken with a majority vote. As specified below, “referees are acting individually; they do not discuss the proposal with each other, nor with any third party”; a referee is not aware of the identity and of the evaluation of other referee(s) evaluating the same proposal.

The tasks of the Panel will also include:

- Deciding about eligibility of candidates without a doctorate who must have the required alternative scientific experience.
- Deciding a priority order for proposals with the same score. The Panel final report should record the following information:
  - A list of proposals passing all thresholds, along with a final score for each proposal passing the thresholds and the Panel priority order produced by the final score obtained combining in a single overall score the scores given by the referees according to the weights reported in the next section of this document.
  - A list of evaluated proposals having failed one or more thresholds
  - A list of any proposals having been found ineligible during the evaluation by experts
  - A summary of any the deliberations of the Panel
  - In case the percentage of successful candidates of a gender is less than one half of the percentage of the candidates of the same gender, the selection Panel will be asked to mention and if possible to give some explanation of such large difference in the final report.

The successful candidates are those who enter within the number of offered fellowships.

In case for any reason one or more of the successful candidates withdraw, they are replaced by the candidates in a reserve list (the list of proposals having passed all thresholds), following the Panel priority order. Each call contains information about the time of validity of the reserve list.

In order to avoid conflicts of interests, experts in the list of referees will be chosen excluding

- a) experts who are members of one of the institutions chosen as a host institution in one of the proposals they are evaluating;
- b) experts who had relevant scientific collaborations with one of the candidates they are evaluating;
- c) experts who are research directors, administrators, managers, and /or owners, even with minority stakes, of foundations, public institutions or private companies which participate to the programme as host institutions;
- d) experts having family or relative ties or connections with the candidates they are evaluating.

All the rules provided for by the Italian laws will apply.

Under the terms of the appointment letter, referees must declare beforehand any known conflicts of interest, and must immediately inform the Panel, which will arrange for the substitution of referees who declare the conflict. If a member of the Panel has a conflict of interest regarding the evaluation of a candidate, he should immediately report to the colleagues of the Panel and abstain from any participation in the evaluation of his proposal.

### **1.3 Criteria and method of judging merit**

**Eligibility criteria for researchers** At the Call deadline applicants to the fellowship programme must be experienced researchers, that is

(i) be in possession of a doctoral degree, independently of the time taken to acquire it

or

(ii) have at least four years of documented full-time equivalent research experience, including the period of research training, after obtaining the degree which formally allowed them to embark on a doctorate in the country in which the degree/diploma was obtained or in the country where the fellowship is taking place (irrespective of whether or not a doctorate was envisaged). The required research experience does not include breaks during the research career of a researcher, irrespective of the reason (e.g. working outside research, family reasons, etc.).

The eligibility check of the requirements described in (ii)<sup>2</sup> will be performed by the Panel in charge of the selection on the basis of the documentation provided by the applicant along with the application.

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<sup>2</sup>All eligibility requirements except this one are checked by INdAM staff. The motivation for treating this requirement differently is that it includes an evaluation of the equivalent scientific experience.

**Applicants to outgoing fellowships** must be Italian nationals and must not have resided or carried out their main activity (work, studies, etc.) in the outgoing country for more than 12 months in the 3 years prior to the deadline for proposal submission. Short stays such as holidays are not taken into account. For the purpose of the programme, Italy non-nationals having legally resided and having had their main activity (work, studies, etc.) in Italy for at least three out of the last four years, measured at the submission deadline for proposals, are treated as Italian nationals (concept of assimilated nationality). Short stays such as holidays are not taken into account.

**Applicants to incoming fellowships** must be nationals of a EU Member State (MS) different from Italy, or of an Associated Country (AC) or of a Third Country, who at the deadline for submission of proposals, have not resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the Call deadline. Short stays such as holidays are not taken into account.

**Applicants to reintegration fellowships** must be Italian nationals who have carried out research in a Third Country for at least 3 years in the last 4 years prior to the deadline for proposal submission (Short stays such as holidays are not taken into account.)

**Duration** The outgoing fellowships consist of an outgoing phase of 18 months and a return phase of 6 months. The incoming and re-integration fellowships will last 24 months. The length falls within the range of duration of the corresponding Marie Curie fellowships.

The proposal should enable referees to evaluate the five criteria listed below. Therefore we recommend, in the Guides for Applicants, that the Part B of the application has a similar structure, e.g. is divided in five sections with subsections matching the subcriteria of each criterion. This is implicitly recognised by the “Scores and Thresholds” section below, where a score 0 is explicitly assigned to the case when the proposal «cannot be judged due to missing or incomplete information». For example, the list of publications is contained in the second subcriterion of criterion 3.

**Criteria and subcriteria for Outgoing fellowships** Displayed in Table 2.

**Criteria and subcriteria for Incoming fellowships** Displayed in Table 3.

**Criteria and subcriteria for Reintegration fellowships** Displayed in Table 4.

**Scores and thresholds** The scores indicate the following with respect to the criterion under examination:

*0 - The proposal fails to address the criterion under examination or cannot be judged due to missing or incomplete information*

*1 - Very poor. The criterion is addressed in a cursory and unsatisfactory manner.*

| <i>S&amp;T Quality</i>   | <i>Training</i>   | <i>Researcher</i>  | <i>Implementation</i>  | <i>Impact</i>   |
|--|---|--|--|---|
| Scientific and technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal  | Clarity and quality of the research training objectives for the researcher            | Scientific and technological quality of previous research                                  | Quality of infrastructure/facilities and international collaborations of the Host organisation | Potential of acquiring competencies during the fellowship to improve the prospects of reaching a position of professional maturity, diversity and independence, in particular through exposure to complementary skills training |
| Research methodology   | Additional scientific training offered, including acquisition of complementary skills | Results including publications, teaching etc., taking into account the level of experience | Feasibility and credibility of the project, including work plan                                | Contribution to career development, or reestablishment after a career break where relevant  |
| Originality and innovative nature of the project and relationship to the “state of the art” of research in the field |   |  | Practical and administrative arrangements, and support for the hosting of the fellow           | Potential for creating long term collaborations and mutually beneficial co-operation between Italy and the country of origin  |
| Timeliness and relevance of the project  |   | Match between the fellow’s profile and project   |  |   |

Tabella 2: Criteria and subcriteria for Incoming fellowships.

- 2 - *Poor. There are serious inherent weaknesses in relation to the criterion in question.*
- 3 - *Fair. While the proposal broadly addresses the criterion, there are significant weaknesses that would need correcting.*
- 4 - *Good. The proposal addresses the criterion well, although certain improvements are possible.*
- 5 - *Excellent. The proposal successfully addresses all relevant aspects of the criterion in question. Any shortcomings are minor.*

When evaluating each criterion, the referee may assign a fractional score, with the resolution of one decimal digit, in case their assessment of that criterion lies between two of the levels described above.

In order to consider the merit of re-entrees in the scientific activity after career breaks, the overall scores of candidates who document career breaks in their curricula will be increased of 0.5% per each year of career break (and proportionally for fraction of year) up to 4 years (i.e. 2 % maximum increase of score).



| <i>S&amp;T Quality</i>   | <i>Training</i>   | <i>Researcher</i>  | <i>Implementation</i>  | <i>Impact</i>   |
|--|---|--|--|---|
| Scientific and technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal  | Clarity and quality of the research training objectives for the researcher            | Scientific and technological quality of previous research                                  | Quality of infrastructure/facilities and international collaborations of the Host organisation (both Outgoing and Return)    | Potential of acquiring competencies during the fellowship to improve the prospects of reaching a position of professional maturity, diversity and independence, in particular through exposure to complementary skills training |
| Research methodology   | Additional scientific training offered, including acquisition of complementary skills | Results including publications, teaching etc., taking into account the level of experience | Feasibility and credibility of the project, including work plan  | Contribution to career development, or reestablishment after a career break where relevant  |
| Originality and innovative nature of the project and relationship to the “state of the art” of research in the field |   |  | Practical and administrative arrangements, and support for the hosting of the fellow (both the Outgoing and the Return host) | Potential for creating long term collaborations and mutually beneficial cooperation between Italy and the outgoing country  |
| Timeliness and relevance of the project  |   | Match between the fellow’s profile and project   |  |   |

Tabella 3: Criteria and subcriteria for Outgoing fellowships.

Career breaks must be clearly documented using the dedicated space in Part A3: “Information on the Researcher”. The corresponding increase will be applied by the Panel to the overall score, on the basis of the information provided.

The thresholds and weightings for the various criteria are summarised in Table 5.

The first part of the evaluation is the individual evaluation of proposals by the referees. Each proposal will first be assessed independently by two referees, chosen by the Panel from the list of referees taking part in this evaluation. This part may be carried out on the premises of the experts concerned (“remotely”).

At the beginning of the evaluation, experts will be briefed by the Panel, covering the evaluation procedure, the experts’ responsibilities, and other relevant material.

All the interactions with experts are carried out through a dedicated website, accessed by each expert with personal credentials. On the top of each evaluation page the expert will find a short description of how the application must be evaluated, and the web interface where the experts will insert their comments and scores will display the related

| <i>S&amp;T Quality</i>   | <i>Training</i>   | <i>Researcher</i>  | <i>Implementation</i>  | <i>Impact</i>   |
|--|---|--|--|---|
| Scientific and technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal  | Clarity and quality of the research training objectives for the researcher            | Scientific and technological quality of previous research                                  | Quality of infrastructure/facilities and international collaborations of the Host organisation | Benefit to the career of the researcher from the period of reintegration                                      |
| Research methodology   | Additional scientific training offered, including acquisition of complementary skills | Results including publications, teaching etc., taking into account the level of experience | Feasibility and credibility of the project, including work plan                                | Contribution to career development, or reestablishment after a career break where relevant                    |
| Originality and innovative nature of the project and relationship to the “state of the art” of research in the field |   | Independent thinking and leadership qualities  | Practical and administrative arrangements, and support for the hosting of the fellow           | Potential for creating long term collaborations and mutually beneficial cooperation with the previous country |
| Timeliness and relevance of the project  |   | Match between the fellow’s profile and project   |  |   |

Tabella 4: Criteria and subcriteria for Reintegration fellowships.

| Evaluation criterion | S&T Quality | Training | Researcher | Implementation | Impact |
|----------------------|-------------|----------|------------|----------------|--------|
| Threshold            | 3           | 3        | 3          | N/A            | N/A    |
| Weighting (in %)     | 15          | 10       | 60         | 5              | 10     |

Tabella 5: Thresholds and weightings

subcriteria, weights and thresholds for each specific criterion. Experts will be informed that a member of the INdAM staff is available to provide support technical.

The proposal will be evaluated against pre-determined evaluation criteria.

The evaluation criteria are modelled on the corresponding Marie Curie Actions, so that they take into account in a natural way diverse knowledge and qualifications: five criteria, each of them containing subcriteria. Evaluation scores are given for each of the five criteria, and not for the sub-criteria. The subcriteria are issues that the referees should consider in the assessment of the relevant criterion. Each criterion will be scored out of 5. Scores will be awarded with a resolution of one decimal place.

Referees perform evaluations on a personal basis, not as representatives of their employer, their country or any other entity. They are expected to be independent, impartial and objective, and to behave throughout in a professional manner. They sign a confidentiality and conflict of interest declaration before beginning their work. Confidentiality rules must be adhered to at all times, before, during and after the evaluation. Under no circumstance may an expert attempt to contact an applicant on his own account, either during the evaluation or afterwards.

The referees are acting individually; they do not discuss the proposal with each other, nor with any third party.

The referees record their individual opinions giving scores and also comments against the evaluation criteria.

When scoring proposals, referees will only apply the above evaluation criteria. Referees will assess and mark the proposal exactly as it is described and presented. They do not make any assumptions or interpretations about the project in addition to what is in the proposal. Concise but explicit justifications will be given for each score.

The referees will also comment on strengths and weaknesses of the proposal under examination.

Examples of the evaluation forms and reports that will be used by the referees in each call will be made available on the INdAM and the dedicated websites.

The final score of each proposal is computed by averaging the overall score assigned by each referee, which in turn is given by the weighted average of the scores of the five criteria, according to the weights reported in the above table.

There is no consensus meeting between the two referees; the average of all scores is computed.

Comments and scores from referees are shared with the candidate, broken down by criterion, as described in 1.1 above; each candidate is therefore able to verify by direct computation that their public score is consistent with the referee evaluations.

Also, the whole evaluation data will be stored by the software that powers the interactive website; the interface will not allow the panelists to change the evaluation contents submitted by the referees.

Then the panel forms the list of all the proposals which meet all the thresholds specified in the above table, and resolves any tie, as specified in 1.2 above, where the overall procedure, from evaluation to fellowship award, is described.

INdAM is a public Institution, established as such by Italian law, and is subject to all ethical rules provided for by the Italian and European laws.

Experience tells that it is not very likely that in a research proposal in mathematics and/or its applications ethical issues might appear. If this will be the case, we will follow the rules dictated by the Italian laws, when applicable, and the EU ethical principles for FP7.

To ensure that the relevant national and EU rules are respected, the following procedures are followed:

- The ethics issues table (as used by the EC and the REA) is part of the application documents. Fellows are informed in the Guide for Applicants that this form must be filled in.
- The potential host organisations are informed that it is their responsibility to help

the fellows to request all ethics approvals needed for their research.

- For outgoing mobility, both FP 7 and national/local ethics regulations of the outgoing host organisation must be respected.
- If the proposal contains sensitive ethics issues (as specified in the ethics issue table, especially topics marked with an asterisk), INdAM Staff and Selection Committee will make sure that the proposal is, in addition to the regular experts, also reviewed by an ethics expert in the relevant area.
- INdAM Staff ensures that ethically sensitive research does not start until all approvals (issued by the relevant authorities) have been received.

The programme is devoted to support research in “mathematics and/or its applications”, therefore proposals which contemplate experiments on humans, animals, foetal issues/cells, human embryonic stem cells, human genetic material, human biological samples, human data collection are not included in the range of research themes of the programme. In case the proposed research needs experimental data to be processed, they should be acquired through scientific literature or scientific communications.

In any case the following fields of research shall not be financed (neither directly or indirectly) under the INdAM-COFUND-2012 programme:

- proposals which contemplate experiments on humans, animals, foetal tissues/cells, human embryonic stem cells, human genetic material, human biological samples, human data collection;
- research activity aiming at human cloning for reproductive purposes;
- research activity intended to modify the genetic heritage of human beings which could make such changes heritable;
- research activities intended to create human embryos solely for the purpose of research or for the purpose of stem cell procurement, including by means of somatic cell nuclear transfer;
- research activities destroying human embryos, including for the procurement of stem cells;
- research activities involving personal data (e.g. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction);
- research activities involving tracking the location or observation of people;
- research having direct military use;
- research having the potential for terrorist abuse.

The corresponding proposals will be considered ineligible by the INdAM staff and ruled out.

The outgoing phase of outgoing fellowships can be undertaken worldwide; the return phase of outgoing fellowships and the incoming and reintegration fellowships take

place in Italy. As specified above in this section, outgoing fellowships are divided in an outgoing phase (18 months) followed by a return phase (6 months). The return phase is therefore not longer than one third of the outgoing phase. Incoming and reintegration fellowships do not have an outgoing phase. There is no need to approach ethical committees and regulatory organisations, because, as explained above, the call announcements will rule out proposals coming into conflict with ethical rules. Fellows will be advised that, at any time, if they feel that they might incur into conflict with ethical rules they should promptly signal INdAM about it and that they might have appropriate support of the Commission in resolving the case.

As explained above describing the scoring system, to provide a positive action to appreciate the merit of returnees after a career break, overall scores are increased (up to 2 per cent) in function of the length of the break. Moreover in each type of mobility one explicit evaluation subcriterion of the criterion called “impact” is “Contribution to career development or reestablishment after a career break where relevant”.

## Allegato 2

### B.2 Management of the programme

**2.1 Appointment conditions of selected fellows** Since the choice of the host institution(s) is left to the applicant, the appropriate conditions in terms of office/lab space, access to equipment and material must be provided by the host institution(s). A sub-criterion of the “implementation” criterion in the selection includes the appropriateness of the Host offer of technical conditions to the fellow.

To this end, the candidate will be requested to attach to his/her on-line application a scanned copy in PDF format of a signed statement of the Legal Representative(s) or the Director(s) of the Host Institution(s) confirming the intention of hosting the candidate as Fellow in case of success in the selection. The letter should provide explicit assurance that the Institution will offer the above described appropriate conditions for the fellow, and include the list of facilities offered to the fellows by the Host Institution(s).

The total cost of each fellowship includes a research cost contribution (RCC1) to be paid to the host Institutions, and a research cost contribution (RCC2) to be paid directly to the fellow.

It should be noted that research in mathematics is not laboratory based, so that the research costs are considerably lower than in experimental sciences.

INdAM will pay to the Host Institution(s) the research cost contribution RCC1 in order to assure that the Host actually provides appropriate conditions to the fellow, such as: office/lab space, access to equipment, material and consumables, fees for scientific journals, hardware and software facilities (in particular for scientific computing), access to libraries, access to seminars, conferences, workshops and other scientific activities and events taking place in the Host Institution. A formal contract of INdAM with the Host institution will be signed in order to ensure that the RCC1 is used according to the described guidelines.

The research cost contribution RCC2 will be paid by INdAM directly to the fellow as a flat rate intended to cover expenses for the direct purchase of any material (excluding hardware) or consumable goods needed for his research, and of travel and living expenses to attend scientific events, including those organised by INdAM. The fellow will be informed of the purpose of this contribution and will not be required to provide justifications of the expenses.

Independently of the host organisation, in order to deepen skills within their discipline and/or to gain new skills in other disciplines and sectors, the fellows will take part in some of the activities of the Istituto Nazionale di Alta Matematica, as explained in the following paragraph 3.2. Moreover INdAM will offer fellows membership of National Research Groups, and ensure the access to the facilities offered by the INdAM Research Units located at the Italian Universities. Reimbursement of expenses will be admitted for scientific engagements compatible with the activities of the National Research Groups.

Fellows participating in activities organised by INdAM or any of the INdAM National groups may get further support for travel. Fellows are invited to join the INdAM National groups also to be able apply for this support. These additional research contributions are nevertheless not guaranteed, because the applications of fellows, as for any other member, will need approval by the Scientific Council of the Group.

The Italian current national legislation does not allow Public Bodies, including INdAM, to appoint fellows under a temporary employment contract. In fact law 24 December 2007 n. 244 "Disposizioni per la formazione del bilancio annuale e pluriennale dello Stato" art. 79, reads "*Le pubbliche amministrazioni assumono esclusivamente con contratti di lavoro subordinato a tempo indeterminato e non possono avvalersi delle forme contrattuali di lavoro flessibile previste dal codice civile e dalle leggi sui rapporti di lavoro subordinato nell'impresa se non per esigenze stagionali o per periodi non superiori a tre mesi...*" (that is, Public Bodies can appoint under an employment contract only for permanent positions; temporary employment contracts are allowed only for seasonal needs or for periods not exceeding three months).

On the other hand, subsequent law n.240/2010 allows to award "assegni di ricerca". This form of recruitment guarantees exactly the same rights and regulations of a temporary employment contract but has the additional advantage of being tax-exempt. Hence fellows will be recruited under a contract "Assegno di ricerca", which includes social security coverage and social benefits (contribution to pension funds, health and accident insurance, maternity/parental benefits, including paid parental leave). Fellows will be entitled to paid parental leave and to paid illness leaves. Rules for parental and illness leaves are the same as those of permanent employment contracts.

For maternity leaves it applies the Italian regulation which requires mandatory leave of 2 months before child birth plus 3 months leave after it. During the mandatory leave of absence INPS (the National Social Security Institute) will cover 80% of the cost of the fellowship and INdAM the remaining part.

To allow a comparison, for example, the total cost of the salary of a "ricercatore", the starting permanent position for a researcher in a Public Research Organisation in Italy amounts to Eur/year 33.722, including total payment of contribution to public pension funds. The following table compares the benefits of "assegni di ricerca" with respect to a permanent employment contract.

When appointed, the fellow will be offered a contract that fully informs him about the conditions of the fellowship and of the rights that he is entitled by it.

The INdAM statutory Charter explicitly complies with the European Charter for Researchers (art. 1: "L'INdAM svolge la sua missione nella dimensione europea e internazionale, in coerenza con i principi e le direttive europee in Ricerca e Formazione e con i principi della Carta europea dei ricercatori, approvata dalla Commissione delle Comunità Europee l'11 marzo 2005."). Fellows will have employment conditions which for recognition of the profession, non-discrimination, research environment, working conditions align with the European Charter for Researchers and The Code of Conduct for the Recruitment of Researchers. In particular the employment conditions fully align with the employment conditions provided to FP7 Marie Curie fellows. Coverage for fellows shall include all of the categories foreseen in Council Regula-

tion (EEC) No 1408/71 of 14 June 1971, namely: benefits for accidents at work and occupational diseases and invalidity benefits.



## **Allegato 3**

### **B.3 Relevance and Impact to "Life-long training and Career development"**

**3.3 Career development support to fellows** Fellows will be researchers at post-doctoral level. At this stage prospective fellows have generally experience of research conducted under the guide of a more experienced professional. It is the crucial time when the mathematician starts to be able of independent work. The programme offers a chance to do so giving financial support and, in many ways, the opportunity for the fellows of developing new collaborations as peers rather than directed by a scientific leader.

Each candidate will identify a scientific staff member of the hosting structure as contact point and supervisor of his/her project. If the application does not contain any indication, then the supervisor will be assigned by INdAM, in agreement with the fellow and the Director of the Host Institution after the selection. In any case the indication of a supervisor will not have any impact on the evaluation.

If the application is successful, the personal career plan of the fellow will be implemented with the help of the supervisor.

The career development of the fellows will be realised through different types of activity:

- 1) Scientific activities related to the fellow research program.
- 2) Scientific activities oriented to the acquisition of applicational abilities in different domains and disciplines.
- 3) Training in non-scientific skills.

The first type of activity will supply the fellows with the experience, knowledge, skills and competences for a research career in public and private research organisations (including universities) and in private enterprises.

The second type of activity will supply the fellows with the professional skills that can allow them to enter highly qualified jobs in public bodies and private enterprises.

The third type of activity will supply the fellows with competences other than purely theoretical/technical ones. They will learn how to communicate, to plan and manage projects, to work in teams, to supervise others' work, to raise funds to carry out research, and so on.

Independently of the Host, in order to further help the fellows to deepen the skills within their discipline, to gain new skills in other disciplines and acquiring non scientific skills, INdAM will offer to each fellow a mentoring-training scheme tailored on his needs. As already mentioned, the scheme will consists in three types of activities

- 1) Scientific activities related to the fellow research program.
- 2) Scientific activities oriented to the acquisition of applicational abilities in different domains and disciplines.
- 3) Training in non-scientific skills.

- 1) Scientific activities related to the fellow research program.

These activities will mainly take place at the Host(s) institutions, carrying out the career plan explained in the fellowship application. The research cost contribution RCC1 paid by INdAM to the Host Institutions, includes access to seminars, conferences, workshops and other scientific activities and events taking place in the Host Institution. Nevertheless, INdAM will offer to the fellows a large choice of Meetings, seminars, courses, schools, intensive periods either directly organised by the Institute or by other Institutions under special agreements. These are “INdAM meetings”, “INdAM workshops”, “INdAM intensive periods”..., as listed below.

The research cost contribution RCC2 to be paid by INdAM directly to the fellows can be used to support their participation to the events. The participation to the events 2) d) and 2) h) listed below will be directly supported by INdAM on its own budget.

- 2) Scientific activities oriented to the acquisition of applicational abilities in different domains and disciplines.

a) Participation in some “INdAM Meetings”. Incoming fellows will be invited to take part in at least two Meetings (one per year), the outgoing fellows in at least one (during the return phase). Outgoing fellows during the outgoing phase will be invited to participate to an analogous meeting in the outgoing country.

(The “INdAM Meetings” are periods of one week of study and research on a specific topic with the participation of about twenty invited researchers, at least 10 of them from abroad. They consist in: cycles of lectures given mainly by invited speakers, and presentations of the results of other participants; seminars and workshops are organised, and possibly a meeting at the end. The Proceedings are published in issues of the “SPRINGER-INdAM Series”, a book series published by Springer under the supervision of INdAM).

b) Participation in some “INdAM Workshops”. Fellows will be invited to take part at least at one workshop (the outgoing fellows during the return phase).

(Each workshop is organised by two directors and consists of lectures and short lecture series on themes and topics which focus on fast-developing and newly emerged areas. The duration is 4 to 5 days and involves 20 to 25 invited participants: established specialists and promising young researchers).

- c) Participation to some of the activities of “INdAM intensive periods”.

(They are scientific activities such as schools, seminars, Conferences, collaborations, round tables, open discussions... on themes having substantial and significant mathematical content and be likely to contribute to the advancement of the mathematical sciences. They bring together mathematicians and scientists of international standing,

with an appropriate balance of age and gender; they are focused with clearly defined aims and objectives and are of a size, type and duration (two to three months) suitable to the stated aims and objectives)<sup>3</sup>.

d) Participation to one of the annual meeting organised by the Equal Opportunity Committee of the programme at INdAM premises (directly supported by INdAM) (the outgoing fellows during the return phase).

e) Participation to the scientific activities of INdAM National Research Groups. INdAM will guarantee to each fellow membership of one of the National Research Groups. Among the activities are schools, conferences, seminars.

f) Participation to the scientific activities of INdAM Research Units located at the Italian Universities. Among the activities are courses, conferences, seminars.

g) Participation to the scientific activities of some Research organisations related to and partially supported by INdAM: CIME (Centro Italiano Matematico Estivo) Firenze, CIRM (Centro Internazionale per la Ricerca Matematica) Trento, Centro De Giorgi Pisa.

For Outgoing fellows, points e), f) and g) will be reserved to the return phase, although in particular cases the fellow might consider participation from abroad using the available funds.

h) Special attention will be devoted to the necessity of fellows resuming a research career after a break of becoming acquainted with the developments of mathematical sciences in the latest years. They will be invited and directly supported to participate (the outgoing fellows during the return phase), in addition to the above mentioned scientific activities, to one “Giornata INdAM”, which play an important role to outline the recent developments and prospects in Mathematics. (The “Giornata INdAM” takes place every year in a different Italian university, with the purpose of illustrating to a general mathematical audience recent advances in mathematics; the event consists of a number of one-hour talks each given by a leading mathematician).

3) Training in non-scientific skills.

INdAM will organise year by year some activities (courses and schools) especially intended for the fellows. The activities will take place at INdAM premises, or at INdAM research Units. Outgoing fellows will participate in the activities during the return phase.

During the realisation of the projects INdAM (through the Scientific Council and the staff) may proceed with monitoring activities through the evaluation of the mid-term reports and possible visits to the host organisations. Should it emerge that the research project is not being carried out in accordance with the approved project plan, specific requirements designed to remove the irregularities will be sent to the researcher and to the host organisation.

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<sup>3</sup>Outgoing fellows will be outside Italy for three quarters of the duration of the fellowship. However this is true, to a lesser extent, for all fellows, because host institutions are based in many locations, which may require some hours of travel even without crossing national borders. Also, INdAM intensive periods are held at an international level, so fellows will be able to consider participating whenever suitable for their research

The mechanism of the programme is quite appropriate to offer to qualified perspective candidates the opportunity to readdress their career by working on new research areas. The programme offers to the fellows the opportunity of working in important research institutions where it is easier to grow professionally to make the fellows' skills known and appreciated. Furthermore the work of the fellow will be reviewed and evaluated by the INdAM Scientific Council at the end of the fellowship time. The evaluation will be available only to the fellow and might be used as presentation in job applications.

A special section of the INdAM website will be devoted to the final scientific results of the fellows. It will display the fellow final production (papers, seminars, scientific reports, scientific software, patents, copyrights...) and a fellow CV. The existence of such website section will be advertised worldwide periodically, in particular addressing public and private research organisations and private enterprises. The fellow page will be kept in the website for at least four years after the end of the fellowship, and will be periodically kept up-to-date.

INdAM will assist fellows and past fellows in publishing their results, in registrations of patents and copyrights, and in protection of intellectual properties.

The fellowship programme is integrated with more general support to research granted by INdAM: the programmes for Visiting Scholars and of support for travel funded by the Research Groups, the programme of Visiting Professors for Doctoral Schools and the support to Intensive Research Periods supported by INdAM. In this framework of research investments which involve the whole Italian mathematical community, scientific relation and collaboration find a natural development as it suggested by the experience of decades in such kind of initiatives.

The aforementioned fellow space will be kept in the section of INdAM official website for at least four years after the end of the fellowship, and will be regularly kept up-to-date. This means that for a quite long period the Institute will maintain the relationships established during the fellowship. The past fellows will receive periodically information about INdAM activities. INdAM will monitor the professional achievements of the past fellows, for statistical purposes and in order to evaluate the impact of the programme on the research careers. Information about the INdAM activities will be yearly sent to past fellows.

Fellows who will be appointed as researchers in public or private Universities, public or private research organisations, public or private enterprises, will be invited to maintain their position as members of one of INdAM National research Groups, participating and collaborating to its research activities.

Periodically INdAM will also monitor the evolution of the career of the fellows in order to assess the role played by the programme on the successful achievement of a permanent and satisfactory position.

## Allegato 4

### Justification of costs breakdown

Fellows are recruited under a status equivalent to a fixed amount fellowship, with social security coverage and social benefits.

**The structure of most of the costs has been designed taking as a reference frame the corresponding Marie Curie actions as shown in annex 3 of the People Work Programme 2012 (PWP) and compared with the costs of the existing Programme INdAM-COFUND started in 2010.**

- **Living allowance**

- Incoming/Reintegration

- The living allowance is calculated taking as a reference annex 3 of the People Work Programme 2012 (PWP) and compared with the costs of the existing Programme INdAM-COFUND started in 2010.

- The yearly amount to be paid to a fellow is 31.200,00€, which is around 9,4% more than the average stipend of fellows of the previous Programme INdAM-COFUND started in 2010.

- Outgoing

- The living allowance is calculated taking as a reference annex 3 of the People Work Programme 2012 (PWP) and compared with the costs of the existing Programme INdAM-COFUND started in 2010.

- During the outgoing phase, the amounts are average rates: a correction factor, depending on the Country of destination, will be applied. The estimation of the number of fellows per country is based on experience from the existing INdAM-COFUND Programme. During the return phase the amount is the same as for incoming fellowships.

- The yearly amount to be paid to each outgoing fellow is going to be 33.000,00€, which is around 13% more than the average stipend of fellows of the previous Programme INdAM-COFUND

- **mobility allowance**

- Incoming/Reintegration

- This is a payment of a fixed amount to cover expenses related to the mobility (relocation, family expenses, language courses, etc.).

- In WP2012 table 3.3 page 73, the reference rate is 700€/month for researchers without family and 1.000€/month for researchers with family; supposing about 2/3 fellows with family and 1/3 without family, the average is 900€/month, corresponding to 10.800€/year.

- **travel allowance**

- Incoming/Reintegration

This refers to an allowance given upon taking up employment and yearly thereafter. It is based upon the direct distance between the location of origin of the researcher and the host institution.

Reintegration fellows are entitled to 1 travel allowance, incoming and outgoing fellows receive 2 travel allowances.

In order to predict the country of destination of the outgoing fellows and the country of origin of incoming and reintegration fellows we consider the distributions in the current INdAM-COFUND programme.

The average amounts per year are:

Incoming: 1.030,00€

Reintegration: 1.000,00€

#### **Travel and mobility**

– Incoming:  $10.800+1.030 = 11.830$  rounded **11.850,00€**

– Reintegration:  $10.800+1.000 = 11.800$  rounded **11.850,00€**

#### ● **mobility allowance**

##### Outgoing

This is a payment of a fixed amount to cover expenses related to the mobility (relocation, family expenses, language courses, etc.).

In WP2012 table 3.3 page 73, the reference rate is 700€/month for researchers without family and 1.000€/month for researchers with family; supposing about 2/3 fellows with family and 1/3 without family: the average is 900€/month.

For outgoing fellows during the outgoing phase, a correction factor, depending on the Country of destination, will be applied, by means of the table 3.2 in Annex 3 of People WP 2012, corresponding to 8.492,08€/year.

#### ● **travel allowance**

##### Outgoing

This refers to an allowance given upon taking up employment and yearly thereafter. It is based upon the direct distance between the location of origin of the researcher and the host institution.

Outgoing fellows are entitled to receive 2 travel allowances.

In order to predict the country of destination of the outgoing fellows and the country of origin of incoming and reintegration fellows we consider the distributions in the current INdAM-COFUND programme.

The average amounts per year is: 983,00€

#### **Travel and mobility**

– Outgoing:  $8.492,08+983,00 = 9.475,08$  rounded **9.500,00€**

#### ● **research cost contribution**

RCC1: To be paid by INdAM to the host Institution(s) either by a direct transfer, or as a payment of invoices, in order to assure that the Host actually provides

appropriate conditions to the fellow, such a little less that hardware and software facilities (in particular for scientific computing), access to libraries, access to seminars, conferences, workshops and other scientific activities and events taking place in the Host Institution.

The contribution RCC1 consists of 5.800,00€ per year (around 480€per month). The amount is between 10 and 20% higher of the corresponding contribution applied in the existing INdAM COFUND Programme.

RCC2: To be paid by INdAM directly to the fellow as reimbursement of expenses for the direct purchase of any material (excluding hardware) or consumable goods needed for his research, and of travel and living expenses for participation to scientific events, including events organised by INdAM.

It amounts to 2.000,00€ per year (around 170€ per month). This contribution is 33,3% higher than the corresponding contribution applied in the existing INdAM.

Total RCC1 + RCC2 = 7.800,00€