

Call for n. 10 post-doc  
INdAM-COFUND Fellowships  
in Mathematics and/or Applications  
for experienced researchers  
cofunded by Marie Curie actions

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## Disclaimer

**This English language translation does not have legal value in itself, and thus does not supersede the Italian version of the Call Announcement (“Bando”).**

## 1 INdAM-Cofund fellowships

The Istituto Nazionale di Alta Matematica “Francesco Severi”, within the European project INdAM-COFUND, gives notice of a call for n. 10 post-doc research fellowships, divided in n. 5 fellowships of *outgoing* type, n. 4 fellowships of *incoming* type and n. 1 fellowship of *reintegration* type.

The duration of each fellowship is 24 months.

Outgoing fellowships consist of an outgoing phase of 18 months, to be spent at a partner organisation not in Italy, followed by a return phase of 6 months, to be spent at the return host organisation in Italy. Incoming or reintegration fellowships consist of a single 24 months phase, to be spent at the host organisation in Italy.

Each host organisation is chosen by the candidate among public or private Universities, public or private research organisations, and public or private enterprises.

From the start of the fellowship, the successful candidate is given the title of “Marie Curie fellow of the Istituto Nazionale di Alta Matematica”. In her/his scientific publications related to the research activity carried out while the fellowship is being awarded, the fellow must be mentioned as “Marie Curie fellow of the Istituto Nazionale di Alta Matematica”.

## 2 Eligibility conditions

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.

### 2.1 Eligibility for outgoing fellowships

Applicants to outgoing fellowships must be Italian nationals or “assimilated” (for example having legally resided, and having had their main activity (work, studies, etc.), in Italy for at least three out of the last four years) 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.

## **2.2 Eligibility for incoming fellowships**

Applicants to incoming fellowships must be Italy non-national from a EU Member State (MS) different from Italy, or Associated Country (AC) or 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.

## **2.3 Eligibility for reintegration fellowships**

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.

## **2.4 General eligibility conditions**

On the date of the relevant deadline for submission of proposals, applicants must be experienced researchers, that is, either

1. be in possession of a doctoral degree, independently of the time taken to acquire it, or
2. have at least four years of 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).

Candidates which are researchers (“ricercatori”), associate or full professors in Italian universities, research workers of State research institutions, or permanently employed professors of foreign universities (“tenured positions”) on the deadline for the submission of proposals, are all excluded from entering the competition, as well as beneficiaries of INdAM-Cofund fellowships awarded in one of the previous calls.

A candidate is not allowed to apply for more than one fellowship among those described in this call.

## **3 Recruitment conditions**

Fellows are recruited under the conditions specified in Annex 1 of the INdAM-Cofund agreement, paragraph B.2 “Management of the programme”, 2.1 “Appointment condi-

tions of selected fellows”, as quoted in Allegato 2.

The total amount of the fellowship is equal to the sum of the following components:

- a *living allowance* and a *mobility allowance*, which will be paid to the fellow. There is no mobility allowance for outgoing fellows during the return phase. The mobility allowance is only paid in those cases where there is transnational mobility of the researcher, precisely:
  - 600 EUR/month, both for outgoing fellows in the initial phase, and for incoming fellows;
  - 450 EUR/month, for reintegration fellows.
- a *travel allowance*, which will be paid to the fellow covering travel expenses, up to the maximum described in Table 1.

As in Table 3.2 in Annex 3 of the People Work Programme 2008, the travel allowance is based upon the direct distance between the location of origin of the researcher and the host institution. Reintegration fellows are entitled to one travel allowance, while incoming and outgoing fellows receive two travel allowances.
- *insurance costs*, to be paid by INdAM in favour of the fellow, to provide coverage for work accidents, occupational diseases and invalidity benefits; they amount to 1000 EUR/year for each type of fellowship;
- a *research cost contribution 1 (RCC1)*, to be paid by INdAM to the host Institution(s) either by a direct transfer, or as a payment of invoices, in favour of the fellow; the RCC1 contribution consists of 5400 EUR/year (450 EUR/month) for outgoing fellows during the outgoing phase, and 4200 EUR/year (350 EUR/month) for outgoing fellows during the return phase, and for incoming and reintegration fellows.
- a *research cost contribution 2 (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/her research, and of travel and living expenses for participation to scientific events; it amounts to 1500 EUR/year for each type of fellowship.

The cost breakdown for each fellowship type is available in Table 1 and in Allegato 4. Please note that the actual amounts for the travel allowance or for the insurance costs might be different: precisely, the amounts in Table 1 are the expected insurance costs and the maximum travel allowance.

The amount of the travel allowance for reintegration fellows in Table 1 is the yearly average of the maximum travel allowance; the total amount due will be actually transferred in a single payment.

The fellowship will be paid in monthly installments after each completed month. Reimbursement of expenses will be admitted for scientific engagements within the field of activities of the “Gruppi Nazionali di Ricerca Matematica”. Additionally and notwithstanding the above conditions, membership of the “Gruppi Nazionali di Ricerca” is guaranteed.

<i>Component</i>	<i>Outgoing</i>	<i>Incoming</i>	<i>Reintegration</i>
Living allowance (EUR/year)	28500	28500	28500
Mobility allowance (EUR/year)	[*] 5400	7200	5400
Travel allowance (EUR/year)	[**] 1000	[**] 1500	[**] 750
Oneri assicurativi (EUR/year)	[***] 1000	[***] 1000	[***] 1000
Research Cost Contribution 1 (EUR/year)	[*] 5100	4200	4200
Research Cost Contribution 2 (EUR/year)	1500	1500	1500
<b>Totale (EUR)</b>	<b>[*] 42500</b>	<b>43900</b>	<b>41350</b>

Table 1: Components of the fellowship ([\*] = yearly average amount; [\*\*] = maximum amount; [\*\*\*] = expected amount)

## 4 How to apply

Applications should be submitted before 15th May 2012, 17:00 Rome local time, by completing an electronic application form which can be found on the INdAM website

<http://cofund.altamatematica.it>

For the application to be valid, the candidate must complete all the required sections of the application form, as well as enclose all the required documents.

## 5 Selection process

The selection process is described in Allegato 1.

The eligible candidates will be ordered in a graded list. The successful candidates are those who enter within the number of fellowships offered. The fellowships that become available through renunciation or other reasons, may be assigned to candidates who have been considered eligible.

The graded list of eligible candidates will be valid until 30 days after the outcome of the selection process is displayed in the Institute, but not later than 20th September 2012.

## 6 Outcome

The outcome of the selection process will be communicated to the successful candidates and will also be displayed in the Institute.

## 7 Appointment

Fellowships are awarded by decree of the President of the Istituto Nazionale di Alta Matematica “Francesco Severi”.

Successful candidates must write to the Istituto Nazionale di Alta Matematica “Francesco Severi” - P.le Aldo Moro, 5 (Città Universitaria) – 00185 ROMA – stating their acceptance of the scholarship under the terms proposed and the choice of the host institution(s), within 5 days of receiving notification via certified e-mail of the outcome of the selection process.

This letter should be either sent by registered mail or handed over in person, obtaining a receipt of delivery. Should the Institute not receive this letter in the given period, the candidate will be deemed to have refused the scholarship.

In the aforementioned letter, successful candidates must explicitly declare that they shall not benefit, throughout the period of the scholarship, from other scholarships or similar grants, and that they shall not receive other salaries or income of any kind. On acceptance of the award, the winners of the competition must attach the following documents to their letter of acceptance:

1. certificate of residence, without stamp duty, or a substitute document of self certification;
2. certificate attesting either the doctoral degree, or the four years of full-time equivalent research experience.

## 8 Obligations of the fellow

The winner of the fellowship should:

- start work within the date indicated in the appointment letter;
- work regularly on the research project at the host center, in particular regularly attending the scientific events which are held there.
- submit to the President of INdAM a report on the research work performed during the first year of the fellowship, not later than 13 months after the start of the fellowship.

The fellow, although expected to take part in some of the activities of the Istituto Nazionale di Alta Matematica, will be able to pursue their research work freely, without fixed working hours and mainly on the premises of the cofinancing center.

The fellowships are not cumulative with any other salary or income of any form. Fellowship holders may not under any circumstances receive income or expenses from the Institute other than what prescribed by Allegato 3.

## **8.1 Missions**

As a general rule, the project must take place at the host organisation(s) premises. However, in some cases, stays away may be justified as part of collaboration.

Researchers may not stay more than 30% of the duration of the fellowship away from the host organisation (or the partner organisation during the outgoing phase) unless such stays are indispensable to the execution of the project and have been explicitly foreseen in the proposal.

For stays away from the host premises not foreseen in the original proposal, permission should be requested in advance providing appropriate justifications. A written approval by the President of INdAM should be received before the stay is deemed authorised.

As an exception to this rule, there is no need to request permission from INdAM for short stays (maximum 10 working days per stay) such as conference attendance, training seminars etc. provided that they do not cumulatively exceed 10% of the duration of the project.

## **8.2 Interruption or suspension**

INdAM must be informed immediately of interruptions of fellows' stays and appropriate justifications should be provided.

Upon request of the fellow, the fellowship may be temporary suspended in exceptional cases by the President of INdAM, after consulting the "Consiglio di Amministrazione".

## **9 Research program**

The fellow must carry out the research program stated in the application, as specified by Annex 1, INdAM-Cofund agreement, paragraph B.3 "Relevance and Impact to "Life-long training and Career development", 3.3 "Career development support to fellows", as quoted in Allegato 3.

## **10 Non compliance and termination**

In the event of non compliance by the fellow, or due to unauthorised absence from the workplace, the President of INdAM can issue a letter of warning, possibly accompanied by an administrative sanction not greater than one month of the fellowship.

If non compliance persists after the first letter of warning, or in the event of severe non compliance, the President, after consulting the "Consiglio di Amministrazione", can prematurely bring the fellowship to an end.

## **11 Temporary suspension for special reasons**

The fellowship may be temporarily suspended, should the fellow be called up for military service, or be absent as a result of pregnancy, childbirth, illness lasting more than a month or other serious reason.

## **12 Other**

Anything which is not explicitly mentioned above is disciplined by Allegato 1, Allegato 2, Allegato 3 and Allegato 4 which are part of the current call.

# **Allegato 1**

## ***Selection process for the fellows under the programme***

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

The calls for the fellowships of the programme are announced on the INdAM website, and are promoted and advertised through the main international websites dedicated to the research and training programmes in mathematics and/or its applications.

A Guide for applicants, available on the INdAM web page, provides the essential information for submitting a proposal to each call.

Applicants must consult these documents. The Guide also contains indicative timetable for each call including expected time for evaluation of proposals and for sending scheduled communications letters to applicants. The Guide gives all details on headings, subheadings, scores, thresholds of evaluation criteria.

Shortly after the call deadline, the INdAM sends an acknowledgement of receipt to the email address of the candidate given in the submitted proposal.

Eligibility criteria for each proposal are checked by the INdAM staff before the evaluation begins. Proposals which do not fulfil eligibility criteria are not included in the evaluation. The topic of these proposals which satisfy eligibility criteria is then checked by the Panel (see Paragraph 2 below); eligible proposals are those that pass both checks.

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

All eligible proposals are evaluated by independent referees. The evaluation criteria and procedure are described later on (see in particular Paragraph 3 below).

Soon after the completion of the evaluation by the referees, each applicant receives a letter containing initial information on the results of the evaluation, including the scores and the comments of the referees. She/he is informed that a redress procedure is available.

The redress procedure is concerned with how the proposal was handled in the evaluation and eligibility-checking process. It is not an automatic re-evaluation; the judgement of appropriately qualified experts is not called into question.

Once the applicant has received the letter containing initial information showing the outcome of the evaluation by experts of her/his proposal or the results of the eligibility checks, he may submit a request for redress if he feels that there has been a shortcoming in the way her/his proposal has been evaluated that may affect the final decision on whether to fund it or not, or if he believes that the results of the eligibility checks are incorrect.

The redress requests are examined by a Redress Committee appointed by the Consiglio di Amministrazione (Board of Directors) of INdAM, after consulting the Consiglio Scientifico (Scientific Council) of INdAM.

The committee's role is to ensure a coherent interpretation of such requests, and equal treatment of

applicants.

Requests must:

- be related to the evaluation process, or eligibility checks ;
- 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. In case 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 procedure each applicant receives 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.

## **2 Composition and organisation of selection committees**

The selection committee in charge of the final decision is a Panel appointed by the Consiglio di Amministrazione of INdAM, after consulting the Consiglio Scientifico, 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)
  - One or more non-national experts
  - Each Panel is in charge only for one call.
- The composition of the Panel must avoid any possible conflict of interests.

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. 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.

The Scientific Council of INdAM and 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.

The selection committee in charge of the final decision of each Call is the Panel appointed by the Consiglio di Amministrazione of INdAM according to the above mentioned rules.

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

Eligibility criteria for each proposal are checked first by the INdAM staff, before the evaluation begins. Proposals which do not fulfil eligibility criteria are not included in the evaluation.

Each proposal which satisfies the eligibility criteria is then checked by the Panel, which determines whether the topic of the proposal is compatibile with the scope of the INdAM-Cofund fellowships. This second check determines the list of eligible proposals.

The Panel allocates each eligible proposal to two referees from the list, taking account of the fields of expertise of them, and avoiding conflicts of interest. Each proposal is 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; this is always the case when the scores given by the two referees differ by more than 1 (i.e. 20 per cent of the maximum possible score), provided that the proposal passes all the thresholds for at least one of the two referees.

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

The tasks of the Panel also include:

- Deciding a priority order for proposals with the same score.

The Panel final report should record:

- A list of proposals passing all thresholds, along with a final score for each proposal passing the thresholds and the Panel priority order.
- 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 mentions and if possible gives 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, the experts in the list of referees are 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 apply.

Under the terms of the appointment letter, referees must declare beforehand any known conflicts of interest, and must immediately inform the Panel, which takes whatever action is necessary to remove any conflict.

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

The first part of the evaluation is the individual evaluation of proposals by the referees. Each proposal is first 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 are briefed by the Panel, covering the evaluation procedure, the experts' responsibilities, and other relevant material.

The proposal is evaluated against pre-determined evaluation criteria.

The evaluation criteria are modelled on the corresponding Marie Curie Actions, as set out in the People Work programme, 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. They also act as reminders of issues to rise later during the discussions of the proposal by the Panel. Each criterion is scored out of 5. Scores are awarded with a resolution of one decimal place.

#### **Eligibility criteria for Researchers**

On the date of the relevant deadline for submission of proposals, applicants to INdAM-COFUND 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 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).

**Applicants to outgoing fellowships** must be Italian nationals or "assimilated" (for example - having legally resided, and having had their main activity (work, studies, etc.), in Italy for at least three out of the last four years) 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 Italy non-national from a EU Member State (MS)

different from Italy, or Associated Country (AC) or 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 re-integration 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.

#### Criteria and subcriteria for the outgoing fellowships

S&T Quality	Training	Researcher	Implementation	Impact
Scientific/technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal	Clarity and quality of the research training objectives for the researcher	Research Experience. Scientific and technological quality of previous research	Quality of infrastructure /facilities and International collaborations of host (outgoing and return host)	Potential of acquiring competencies during the fellowship to improve the prospects of reaching and/or reinforcing 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		Independent thinking and leadership qualities	Practical and administrative arrangements, and support for the hosting of the fellow (outgoing and return host)	Potential for creating long term collaborations and mutually beneficial co-operation between Italy and the outgoing country
Timeliness and relevance of the project		Match between the fellow's profile and project.		

#### Criteria and subcriteria for the incoming fellowships

S&T Quality	Training	Researcher	Implementation	Impact
Scientific/technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal	Clarity and quality of the research training objectives for the researcher	Research Experience. Scientific and technological quality of previous research	Quality of infrastructure / facilities and International collaborations of host	Potential of acquiring competencies during the fellowship to improve the prospects of reaching and/or reinforcing 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		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 co-operation between Italy and the country of origin
Timeliness and relevance of the project		Match between the fellow's profile and project.		

### Criteria and subcriteria for the re-integration fellowships

S&T Quality	Training	Researcher	Implementation	Impact
Scientific/technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal	Clarity and quality of the research training objectives for the researcher	Research Experience. Scientific and technological quality of previous research	Quality of infrastructure / facilities and International collaborations of 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 co-operation with the previous country
Timeliness and relevance of the project		Match between the fellow's profile and project.		

## 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.*

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.*

The thresholds and weightings for the various criteria are summarized in the table below:

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

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 an appointment letter, including 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/her 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 in an Individual Assessment Report (IAR), giving scores and also comments against the evaluation criteria.

When scoring proposals, referees *only* apply the above evaluation criteria. Referees 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 are given for each score.

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

Signature of the IAR entails a declaration that the expert has no conflict of interest in evaluating the particular proposal.

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

## **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. A sub criterion of the “implementation” criterion in the selection includes the appropriateness of the Host offer of technical conditions to the fellow.

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.

Independently of the host(s) organisation(s), in order to deepen the skills within their discipline and/or to gain new skills in other disciplines and sectors the fellows take part in some of the activities of the Istituto Nazionale di Alta Matematica, as explained in the following paragraph 3.3.

Moreover INdAM will guarantee to each fellow membership of the National Research Groups, and ensure the access to the facilities offered by the INdAM Research Units located at the Italian Universities. Reimbursement of expenses is admitted for scientific engagements compatible with the activities of the National Research Groups.

If the fellows participate in activities organized by INdAM or any of the INdAM National groups, they may get further support for travel. Also for this purpose, the fellows are invited to join the INdAM National groups so that they may apply for support. These further research contributions are nevertheless not guaranteed, as the applications of fellows will be subject to the approval by the Scientific Council of the Group, as it is done for any other member.

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

The fellowship consists of:

- an amount to be paid directly to the fellow (the sum of the living allowance and the mobility allowance);
- a travel allowance, to be paid to the fellow as reimbursement of travel tickets;
- insurance costs to be paid by INdAM in favour of the fellow, to provide coverage for work accidents, occupational diseases and invalidity benefits;
- a 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 the interest of the fellow;
- a research cost contribution (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/her research, and of travel and living expenses for participation to scientific events.

For recognition of the profession, non-discrimination, research environment, working conditions, the employment conditions of the fellows comply 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 recruited under a fixed amount fellowship scheme.



## Allegato 3

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

#### **3.3 Career development support to fellows**

Fellows are 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.

The career development of the fellows is realized through different types of activity:

- 1) Scientific activities related to the fellow research programme;
- 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 supplies 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 supplies 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/her needs.

As already mentioned, the scheme will consist in three types of activities

#### **1) Scientific activities related to the fellow research programme.**

These activities will mainly take place at the Host institution(s), 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 organized by the Institute or by other Institutions under special agreements. These are "INdAM meetings", "INdAM workshops", "INdAM intensive periods".

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 and re-integration 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 participate to a meeting chosen among those organized by mathematical organizations in the outgoing country. In countries covered by a research Institute of IMSI (International Mathematical Sciences Institutes) or of ERCOM (European Research Centres on Mathematics), the meeting will be preferably chosen among those offered by such an Institute.

- 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).
- c) Participation to some of the activities of “INdAM intensive periods”.
- d) Participation to the annual meeting organized by the Equal Opportunity Committee of the Programme at INdAM premises (directly supported by INdAM).
- 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 (the outgoing fellows during the return phase).
- g) Participation to the scientific activities of some Research organizations 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.
- 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, in addition to the above mentioned scientific activities, to the “Giornata INdAM”, which play an important role to outline the recent developments and prospects in Mathematics.

### **3) Training in non-scientific skills.**

INdAM will organize 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.

The mechanism of the Program 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 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 involves 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 former 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 cost breakdown***

The fellows are recruited under a status equivalent to a fixed amount fellowship.

The structure 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 2008 (PWP).

#### **• Living allowance:**

The base amount is Marie Curie WP 2008 rate stipend, 26.500€ x 103,9 (corrector coefficient for Italy) = 27.533. We increase this slightly to 28.500/year.

This amount is exactly the yearly amount to be paid to each fellow; neither correction factors nor inflation factor will be applied. Hence the average is exactly **28.500 € for all the fellowship schemes.**

#### **• Insurance costs:**

To be paid by INdAM in favour of the fellow, to provide coverage for work accidents, occupational diseases and invalidity benefits; they amount to about € 1000 per year for each type of fellowship

#### **• Mobility allowance:**

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

There is no mobility allowance for outgoing fellows during the return phase. The mobility allowance is only paid in those cases where there is transnational mobility of the researcher, and precisely:

- 600 €/month, for incoming fellows and outgoing fellows during the outgoing phase;
- 450 €/month, for reintegration fellows.

These amounts are comparable with the corresponding Marie Curie amounts.

#### **• Travel allowance:**

This refers to an allowance given upon taking up employment and yearly thereafter.

As in Table 3.2 in Annex 3 of the People Work Programme 2008, 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

#### **• Research cost contribution 1 (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 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. The research cost contribution RCC1 has been designed taking as a reference the Marie Curie actions, where it is called *Contribution to the participation expenses of eligible researchers* (People WP 2008 pg 57). RCC1 and RCC2 are tailored so that the total RCC1 +RCC2 is a little less than the corresponding Marie Curie amounts.

The contribution RCC1 consists of €5400 per year (€450 per month) for outgoing fellows during the outgoing phase and €4200 per year (€350 per month) for incoming, reintegration fellows, and outgoing fellows during the return phase (the average for outgoing fellowship is then €5.100).

• **Research cost contribution 2 (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/her research, and of travel and living expenses for participation to scientific events; it amounts to € 1500 per year for each type of fellowship.