October 31st, 2011

PERSONNEL CONTRACTS WITH CPAN PARTIAL FINANCIAL SUPPORT

The CPAN project of the CONSOLIDER–INGENIO 2010 program announces 2 contracts of personnel with partial financial support from CPAN. The proposed contracts are meant to provide support to the groups' research activities in a series of priority lines within the strategic actions of the CPAN Project. A detailed description of these contracts can be found in Annex I. The fundings to each contract will be limited by the ending date of the project (9th December 2014).

The groups participating in the CPAN Project will make an effort to give publicity to the present announcement in order to optimize the number and quality of the applications received.

1) Amount and nature of the financial support

The CPAN financial support for each of the contracts specified in Annex I will have the aim of co-financing the total contract cost, understood to be the sum of the net retribution plus the Social Security company fee. The beneficiary entities will hire the selected candidates in accordance with the current labour legislation.

The amount of the CPAN financial support will be 30.000 euro per year, and the minimum annual retribution they will receive, which must be indicated in the contract, is 27.000 euro (brut salary).

The remaining co-financing of the contract will be the responsibility of the beneficiary groups and organisms, who will assume the cost of retribution increments of the hired personnel in the following years, as well as the repercussions of any increases in the Social Security fee.

The beneficiary entities are obliged to put at the appointee's disposition all the installations and material means needed for the normal development of their work, as well as to guarantee the same rights and benefits enjoyed by the entities' personnel of similar category.

In case of interruption of the contract, the beneficiary entity and the appointed personnel are obliged to communicate such interruption to the CPAN Office within 15 natural days from the date of the interruption.

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2) Candidate requisites

People whose contract is co-financed through this aid must have a graduate university or PhD degree depending on the contract to which they apply. Candidates must be in possession of the required degrees by the date in which the application is presented and they cannot participate or have participated in the past in other Consolider projects.

3) Formalization and Application Process

Applications will be presented by the candidates through an internet application which can be accessed from the WEB page of the CPAN project: http://www.i-cpan.es. Applications must include:

1) The candidate's personal information.
2) The type of contract to which the candidate opts.
3) The candidate's Curriculum Vitae, including a scanned copy of the academic certification and university degree.

Applications must be presented from 31st October, 2011 to 10th November, 2011 (both inclusive).

The beneficiary group shall complete the application with a report about the optimal fitness of each candidate for the foreseen activities, assigning a tentative priority order to each candidate. These reports will also be processed through the internet application installed in the CPAN WEB page. The deadline for these reports is 12th November 2011.

4) Evaluation of applications

The evaluation of applications will be done by an Evaluation Commission named by CPAN's Executive Committee. The referred Commission will study and order the applications according to the following rules:

1) Compliance of the candidate to the development of the tasks to be performed, as function of the technical skills required.

2) CV of the candidate.

The resolution with the list of selected candidates will be published in CPAN's web page. The Evaluation Commission could propose, if needed, a list of supplants.

The proposed candidates must confirm in a period of 15 natural days their acceptance by means of e-mail which must be sent both to the receiving group as well as to the CPAN Office. If no notification is received within that period, the CPAN's Executive Committee will be entitled to select the following candidate in the list of supplants.

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5) Payment of the CPAN financial support and follow-up

In general, the assigned funding will start on the date in which the contract between the candidate and the corresponding organization starts, either after the publication of the resolution or before that, in this last case always having as limitation the date in which the period for presenting applications is open.

Payments will be done to the corresponding organizations after the publication of the resolution as soon as the contract being financed is presented.

Any publication or result related with the activities performed under this program must contain a reference to the CPAN financial support.

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ANNEX I: Relation of Contracts

Reference: CPAN11-TS10

Participation in the research activities of the String Theory group at the IFF.

CPAN beneficiary group:

Instituto de Física Fundamental (IFF)

Requirements of the candidate:

Ph. D. degree in Theoretical Physics. The candidate should have a good theoretical understanding of superconformal models in two dimensions. Furthermore he/she should have an excellent working knowledge of exact string constructions using conformal field theory. That includes in particular interacting CFTs, such as superconformal N=2 minimal models and their tensor products.

Profile:

The candidate will participate in the research activities of the String Theory group. The main focus of this group is the construction of exact string models using rational conformal field theory (RCFT), and the analysis of these models with regard to string phenomenology. In particular the candidate should be familiar with important aspects of string phenomenology either in heterotic or in orientifold model building. Experience with the application of algebraic methods to either of these subjects would be very useful. The group is also very interested in constructing and analysing the String Theory landscape. Therefore an interest of the candidate in landscape issues, both with regard to the Standard Model, as well as to Cosmology is desirable. Other experience and interests in related issues, such as Black Hole/String Theory connection, AdS/CFT correspondence, holography, etc. are also most welcome.

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Reference: CPAN11-TS11

"Development and application of new x-ray gaseous detectors to the search of axions in the CERN Axion Solar Telescope (CAST)"

Requirements of the candidate:

Degree in physics or electronics engineer. General experience in laboratory will be valued, and more specifically in experimental particle physics, in particular detectors and data acquisition systems.

Profile:

The candidate will participate in the activities the group is carrying out within its experimental program on axion and neutrino physics, especially those related with the CAST experiment at CERN, in which the Zaragoza group has a leading role. The period encompassed by the contract includes the last data taking phase of the original program, as well as a transition phase in which the collaboration foresees an intense R&D activity of (among other things) x-ray low background detectors based on Micromegas technology. The last prototypes developed by the group and its collaborators are showing evidence for ultra-low background levels, although there remain several aspects to understand. The development work proposed aims at studying and consolidating that evidence, and is part of the overall effort of the collaboration to define a new generation of axion helioscopes, which eventually will yield a new experiment to go well beyond CAST sensitivity. The candidate will contribute to the current operation and data taking of the detectors installed at CERN, as well as to the development of enhanced prototypes.

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