



# NEWS



European Commission



H2020-MSCA-RISE-2016 — Grant Agreement N° 734303



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EGO - Virgo



UNIVERSITÀ DI PISA



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UNIVERSITÀ DEGLI STUDI DI GENOVA



SAPIENZA UNIVERSITÀ DI ROMA



## Management

Simone Donati  
Pisa, July 17, 2017



# NEWS: NEw WindowS on the universe and technological advancements from trilateral EU-US-Japan collaboration



**Gravitational  
wave physics**



**Astroparticle  
&  
Astrophysics**



**Particle physics  
at accelerators**

**Technology, Technology,  
Technology, Technology**

**Will hear more from the WP co-leaders**

# Trilateral EU-US-Japan collaboration



INFN, UNIPI, POLIMI, UNIGE, UNIPG, UNIRO,  
UNINA, European Gravitational Observatory



Helmholtz-Zentrum Dresden-Rossendorf,  
*Impex HighTech GmbH*



*Prisma Electronics*



CNRS, European Gravitational Observatory,  
*Clever Operation*



Stockholms Universitet,  
KTH Royal Institute of Technology




Fermilab, Stanford University, Caltech,  
Marshall-NASA, *Faraday Technology Inc.*



National Astronomical Observatory of Japan-NINS

# General overview on RISE

- ✓ H2020 EU Research and Innovation program
  - Excellent Science
  - Marie Skłodowska Curie Actions
  - RISE (Research and Innovation Staff Exchange) 2016
- ✓ RISE research projects implemented with “secondments” of researchers and industry personnel, to develop knowledge sharing and long-term collaborations
- ✓ Funds depend ONLY on the number of planned secondments
- ✓ NEWS — about 110 people from:
  - 12 EU research institutes (INFN, UNIPI, POLIMI, UNIGE, UNIPG, UNIRO, UNINA, EGO, HZDR, CNRS, OCK, KTH)
  - 3 EU industries (Prisma, Impex, Clever)
  - 5 US hosting institution (FNAL, STANFORD, CALTECH, MARSHALL, FARADAY)
  - 1 JAPAN hosting institution (NINS-NAOJ)
- ✓ Timeline: **July—1—2017**  **June—30—2021**

## MSCA:

- provide skills and international experience for successful careers
- attractive working conditions
- opportunity to move between academia and industry

RISE: EU & non-EU, academic & non-academic sectors (in particular SMEs)

# RISE Financing

EU Research Executive Agency (REA) gives 4500 Euro for each **planned**, **implemented** and **eligible** secondment (30 days long) divided as follows:

Marie Skłodowska-Curie Action	Staff member unit cost [per person-month of secondment] [EUR]	Institutional unit cost [per person-month of secondment]	
		Research, training and networking costs [EUR]	Management and indirect costs [EUR]
RISE	2,000	1,800	700

This amount **MUST** be used to pay expenses related to the secondment  
It corresponds to ~ 70 Euro / day (instalments, reimburse travel and subsistence costs, a mix of both)

Meetings, training, dissemination...

If needed, it might be used to integrate 'Staff member/unit cost'

*Management and indirect costs cover all general costs connected with the organisation and implementation of the secondments (administrative and financial management, logistics, ethics, human resources, legal advice, documentation, etc.).*



# Eligible secondments

Eligible staff seconded under RISE are:

- Early-stage researchers (ESR);
- Experienced researchers (ER);
- Administrative (ADM)<sup>4</sup>, managerial (MNG) and technical staff (TECH) supporting the research and innovation activities of the project.

## Guidelines:

➤ Seconded personnel must have had an employment contract with the home institution for at least 6 months (FTE) before the Secondment may begin. INFN "Associazione/Incarico di Ricerca" is OK. This was checked with the European Commission, similar cases have to be checked. **No retired people.**

➤ Contract variation does not suspend eligibility

➤ A substantial time interval between two contracts requires additional 6 months FTE for eligibility

**Please, contact me in case of any doubt... better to find an agreement with the PO rather than secondments not paid**

# NEWS Financing

Partner number	Partner short name	Country	EU/AC or TC	Academic sector	Total Number of secondments	Total Researcher Months: Period 1	Total Researcher Months: Period 2	Total Researcher Months: Overall	Total Researcher Months: (%)
1	INFN	Italy	EU/AC	Yes	97	80.00	50.00	130.00	37.36%
2	HZDR	Germany	EU/AC	Yes	6	2.00	4.00	6.00	1.72%
3	Prisma	Greece	EU/AC	No	12	5.00	7.00	12.00	3.45%
4	POLIMI	Italy	EU/AC	Yes	10	4.00	6.00	10.00	2.87%
5	CLEVER	France	EU/AC	No	14	6.00	14.00	20.00	5.75%
6	UNIGE	Italy	EU/AC	Yes	24	33.00	8.00	41.00	11.78%
7	UNIFI	Italy	EU/AC	Yes	23	16.00	11.00	27.00	7.76%
8	OCK	Sweden	EU/AC	Yes	9	11.00	4.00	15.00	4.31%
9	KTH	Sweden	EU/AC	Yes	27	12.00	16.00	28.00	8.05%
10	CNRS	France	EU/AC	Yes	7	4.00	3.00	7.00	2.01%
11	UNIPG	Italy	EU/AC	Yes	26	18.00	12.00	30.00	8.62%
12	UNIRO	Italy	EU/AC	Yes	3	2.00	1.00	3.00	0.86%
13	Impex	Germany	EU/AC	No	1	1.00	0.00	1.00	0.29%
14	EGO	Italy	EU/AC	Yes	4	2.00	2.00	4.00	1.15%
15	UNINA	Italy	EU/AC	Yes	9	6.00	8.00	14.00	4.02%
17	NINS-NAOJ	Japan	TC	No	0	0.00	0.00	0.00	0.00%
18	Marshall-NASA	United States	TC	Yes	0	0.00	0.00	0.00	0.00%
19	FRA	United States	TC	No	0	0.00	0.00	0.00	0.00%
20	Faraday Technology Inc.	United States	TC	No	0	0.00	0.00	0.00	0.00%
21	STANFORD	United States	TC	Yes	0	0.00	0.00	0.00	0.00%
22	CALIFORNIA INSTITUTE OF TECHNOLOGYCORP	United States	TC	Yes	0	0.00	0.00	0.00	0.00%
<b>TOTAL</b>					272	202.00	146.00	348.00	100.00%

Total of 348 person-month secondments. This limit cannot be exceeded

Pre-financing payment: 65% of the total budget

(out of which 5% retained by REA as guarantee fund)

Executed by EU on June 21, 2017

# Requirements

By signing the Grant Agreement (GA), we committed to:

- ✓ **SECONDMENTS** Detailed table for the whole 4-years period in the GA  
**Variations must be approved by MB and agreed with PO**
- ✓ **TRAINING** Specific training sessions during GM + see next slide
- ✓ **DISSEMINATION** Results presented to the scientific community  
**All NEWS related papers open access (arXiv is enough)**  
**Acknowledgements to NEWS *must* be included**
- ✓ **OUTREACH** **Some** activities already planned in the GA
- ✓ **NEWS MEETINGS** One per year
- ✓ **WEB SITE** UNIPI-INFN deliverable, with public and private pages
- ✓ **MIDTERM REVIEW** (January 2019), **ANNUAL REPORTS TO EU**



# Trainings

Training is a fundamental aspect of H2020: one of the main goals is Improving individual skills for research and industry personnel

Secondments are considered as training of personnel. Take this into account when research declarations is drafted

We have planned training courses on activities connected with NEWS during our *General Meetings*, we have to organize them

This is not enough: we have to participate also in some extra training activities. This will be a relevant criteria for the evaluation of the project at the 'Midterm Review' (i.e. the project financing), foreseen in Jan 2019

We should take advantage as much as possible of all possible opportunities:

- ❖ Training courses from home institutions
- ❖ Training courses @FNAL, Stanford, Caltech, Marshall, Naoj (software tools, management...)
- ❖ Webinars
- ❖ Synergies with other EU projects? (for example MUSE)

# Project Implementation

NEWS activities organized in 11 Work Packages (WP):

WP Number <sup>9</sup>	WP Title	Lead beneficiary <sup>10</sup>	Start month <sup>12</sup>	End month <sup>13</sup>
WP1	Ethics requirements	1 - INFN	1	48
WP2	Gravitational Wave Physics	1 - INFN	1	48
WP3	Gravitational Wave Detectors	11 - UNIPG	1	48
WP4	Fermi-LAT Data Analysis	1 - INFN	1	48
WP5	X-ray Polarimetry	7 - UNIPI	1	48
WP6	FNAL Muon Campus Experiments	1 - INFN	1	48
WP7	Advanced Superconducting Technology for Particle Accelerators	4 - POLIMI	1	48
WP8	Advanced Superconducting Technology for Particle Detectors	6 - UNIGE	1	48
WP9	Dissemination and Outreach	11 - UNIPG	1	48
WP10	Transfer of Knowledge	15 - UNINA	1	48
WP11	Management	1 - INFN	1	48

# Project Management

Two boards to run the project, to be implemented by July 2017  
(**Milestone 1**)

**MANAGEMENT BOARD** (meets each 3 months + when needed)

- Administrative aspects of the project
- One member for each Beneficiary main department + the coordinator (chair)

**SCIENTIFIC BOARD** (meets each 3 months + when needed)

- Coordination of the network activities
- WP coordinators (chaired by one MB member)

# MB duties (from Grant Agreement)

- ❖ MB meets every three months. Extra meetings if requested by SB
- ❖ First MB meeting: appoint WP conveners
- ❖ Responsible of administrative activities
- ❖ Provides the means to operate the project efficiently
- ❖ It is responsible, in close contact with the SB for:
  - Revision and authorization of secondments
  - Organization of *General Meetings*
  - Monitoring progress towards deliverable completion
  - Approve periodic reports and the final project report
  - Decide on budget re-allocation, in necessary
- ❖ Guarantees maximization of knowledge sharing among participants

# MB duties (in practice)

In general, we have to follow activities connected with each home institution:

- ✓ Secondments and submission of the related "Research Reports" on EU portal
- ✓ Milestones, Deliverables, Outreach
- ✓ Training, Dissemination of seconded researchers
- ✓ Papers: acknowledgements to NEWS and open access

What we have to do today (or soon):

1. Appoint WP conveners
2. Approve secondments for the first four months
3. Define a common strategy to handle secondments and "Research Reports"
4. Define acknowledgements
5. Define date/place for the 2018 NEWS General Meeting
6. Set a date for next MB meeting



# SB duties (from Grant Agreement)

- ❖ SB meets every three months. Extra meetings if requested
- ❖ SB is composed of the WP co-Leaders (chaired by one MB member, Luca Latronico INFN)
- ❖ First MB meeting (today): appoint WP co-Leaders
- ❖ It is responsible of
  - Monitoring the progress of the planned tasks
  - Planning Secondments
  - Organizing, supervising and monitoring researchers' trainings
  - Promoting dissemination
  - Coordinating outreach, organizing activities for the general public

# WP co-Leaders ( = Scientific Board)

WP #	WP Name	Lead Beneficiary	Co-Leader
1	Ethics requirements	INFN	S. Donati (INFN)
2	Gravitational Wave Physics	INFN	M.Razzano (Unipi), E.Majorana (INFN)
3	Gravitational Wave Detectors	UNIPG	H.Vocca (Unipg), E. Calloni (Unina)
4	Fermi-LAT data analysis	INFN	S.Cutini (INFN), M.Pesce-Rollins (INFN), S.Digel (Stanford)
5	X-Ray Polarimetry	UNIFI	L.Baldini (Unipi), L. Latronico (INFN), B.Ramsey (Marshall)
6	FNAL Muon Campus Experiments	INFN	I. Sarra (INFN), V.Giusti (Unipi), G.Pezzullo (INFN)
7	Superconductors for accelerators	POLIMI	S.Franz (Polimi), S. Farinon (INFN), E.Barzi (FNAL)
8	Superconductors for detectors	UNIGE	F.Gattti (Unige), M.DeGerone (INFN), E.Barzi (FNAL)
9	Dissemination and Outreach	UNIPG	F.Cottone (Unipg), C.Oppedisano (INFN). C.Luongo (INFN)
10	Transfer of Knowledge	UNINA	R.DeRosa (Unina), E.Pedreschi (INFN). R.Sia (Clever)
11	Management	INFN	S.Giovannella (INFN), M.Punturo (INFN), S.Donati (INFN)

**Scientific Board Chair: Luca Latronico INFN**

# Planned secondments (Jun-Oct 2017)

Staff member ID	Staff member profile	Sending Org. (Short Name)	Sending Org. (Country)	Sending Org. (Region)	Sending Org. (Academic Sector)	Seconded to Org. (Short Name)	Seconded to Org. (Country)	Seconded to Org. (Region)	Seconded to Org. (Academic Sector)	Work package number	Secondment Starting month	Duration of secondment (researcher-months)
17	ER	INFN	IT	EU/AC	yes	FRA	US	TC	no	WP11	8	1
17	ER	INFN	IT	EU/AC	yes	FRA	US	TC	no	WP6	20	1
17	ER	INFN	IT	EU/AC	yes	FRA	US	TC	no	WP11	32	1
17	ER	INFN	IT	EU/AC	yes	FRA	US	TC	no	WP9	44	1

Our original Secondments plan was written in the Proposal in April 2016

We recently updated it with the Grant Agreement Preparation, but of course, it was impossible to make accurate plans for the next 4 years

**We can and we will update our plans, but this will have to be approved by the Management Board and the Project Officer**

In the next few days we have to check our Secondments plan at least for the next 4 months

# Rules for managing secondments (I)

We have to setup clear rules to avoid audit problems and too much bureaucracy

- ❖ The secondment will be notified to the host institutions in a centralized way:
  - All beneficiaries will send to INFN (S. Petronici and myself) the list of secondments planned for a whole month 10 days before the beginning of that month
  - INFN will send the complete list to the host institutions before the beginning of each month
- ❖ In coincidence with each secondment, the host institution will release a signed form to the researcher with arrival and departure dates, that must be returned to the sending institution
- ❖ "Each time a new Secondment takes place, the sending Beneficiary has to submit the respective Researcher Declaration within 20 days from the beginning of the Secondment"
- ❖ It is extremely important to encode all the Researchers Declarations and split stays before the submission of the Periodic Report, as it will not be possible to include Researcher Declaration for that stay after the report has been submitted
- ❖ A contribution of at least € 2000 is mandatory for each 30-day secondment. Secondments can be split in several trips/stays. A possible way to accomplish this is to use a daily allowance charged to NEWS funds
- ❖ Keep records of secondment expenses (travel tickets, accommodation...)

# Rules for managing secondments (II)

Example of signed form released by the host Institution (News contact person) to the researcher, with arrival and departure dates, that must be returned to the sending institution

Fermilab  
Emanuela Barzi

Faraday  
Edward Jennings  
Taylor/Maria Inman

Stanford  
Seth Digel

Caltech  
David Reitze

Nins-Naoj  
Raffaele Flaminio

Marshall  
Brian Ramsey

Fermilab

Emanuela Barzi  
630 840 3446  
630 840 3369(fax)  
barzi@fnal.gov

Fermilab, July 25, 2017

To whom it may concern,

Object: NEWS Secondment of Simone Donati at Fermilab

This is to certify that Simone Donati from INFN has visited Fermilab from July 17, 2017 to July 25, 2017 in order to participate in the activities connected to WP "N" in relation to the H2020 Grant Agreement n. 734303 "NEWS".

Sincerely,

Emanuela Barzi



# Rules for managing secondments (III)

Example of scientific report written by the researcher and returned to the sending institution for each Secondment (or fraction of Secondment. i.e. for each trip to the Hosting Institution)

**734303-NEWS-MSCA-RISE-2016**

**Simone Donati, INFN-Pisa**

**Report on the Secondment at Fermilab: Monday, July 17, 2017 – Monday, July 24, 2017**

## **Text of the Report**

**Tuesday, July 25, 2015**

**(Simone Donati)**

# Acknowledgements

Proposed phrasing:

This work was supported by the EU Horizon 2020 Research and Innovation Programme under the Marie Skłodowska-Curie Grant Agreement No. 734303.

Any other suggestion?

Official request to Virgo/Ligo, Fermi-LAT, IXPE, Mu2e and Muon (g-2) Collaborations to include it in the acknowledgements of papers with NEWS people involved

# Next meetings

- ❖ First NEWS Scientific Board meeting: September 2017
- ❖ Next NEWS Management Board meeting: October 2017
  
- ❖ First NEWS General Meeting
  - To be hosted at INFN - Pisa
  - General Meeting is a deliverable due within March 2018