



INTENSE



European Commission



Istituto Nazionale
di Fisica Nucleare

H2020-MSCA-RISE-2018 — Grant Agreement N° 822185



UNIVERSITÀ DI PISA



A. Menegolli

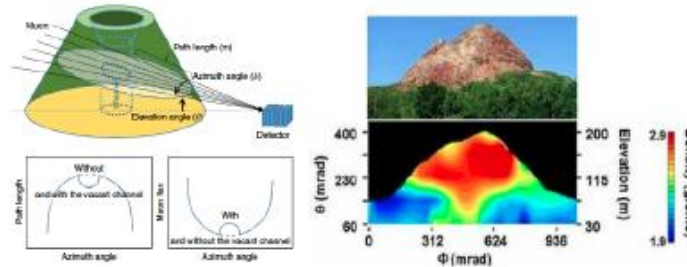
C.d.S – 12 febbraio 2019

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UNIVERSITÄT
BERN



INTENSE: particle physics experiments at the high Intensity Frontier, from new physics to spin-offs.
A cooperative Europe - United States - Japan effort.



Muography

Trilateral EU-US-Japan collaboration



UNIFI, INFN, INGV, **Caen, Tecno In S.P.A**



Universite Catholique de Louvain, Universiteit Gent,
B12 Consulting



SEEMS



University of Manchester
 University of Cambridge



Clever Operation



Wigner RCP



Universitaet Bern,
 CERN



Fermilab, YALE, MIT



University of Tokyo, Nagoya University,
 Kansai University, Kyushu University

General overview on RISE

- ✓ H2020 EU Research and Innovation program
 - Excellent Science
 - Marie Skłodowska Curie Actions
 - RISE (Research and Innovation Staff Exchange) 2018
- ✓ RISE research projects implemented through “secondments” (Intersectoral within Europe, No constraints outside Europe), to develop knowledge sharing and long-term collaborations
- ✓ Funds depend ONLY on the number of planned secondments
- ✓ INTENSE — about 100 people from:
 - 11 EU research institutes (UNIPR, INFN, INGV, UNIBERN, UNICAM, TELAVIV, CERN, UNIGENT, UNIMAN, WIGNERRCP, UCL)
 - 5 EU industries (CAEN, Seams, Clever, B12, TECNOIN)
 - 3 US hosting institution (FNAL, YALE, MIT)
 - 4 JAPAN hosting institution (TOKYO, NAGOYA, KIUSHU, KANSAI)
- ✓ Timeline: **January—1—2019** ➡ **December—31—2022**

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)

INTENSE Financing

Partner number	Partner short name	Country	Number of secondments funded by EU	Researcher Months funded by EU Period 1	Researcher Months funded by EU Period 2	Researcher Months funded by EU Overall
1	UNIFI	Italy	8	6.00	4.00	10.00
2	UCL	Belgium	6	6.00	2.00	8.00
3	INGV	Italy	3	2.00	1.00	3.00
4	CAEN	Italy	4	10.00	0.00	10.00
5	SEEMS IKE	Greece	6	4.00	2.00	6.00
6	UBERN	Switzerland	12	17.00	5.00	22.00
7	UCAM	United Kingdom	12	8.00	8.00	16.00
8	CLEVER	France	12	11.00	7.00	18.00
9	TAU	Israel	10	11.00	7.00	18.00
10	TECNO IN SPA	Italy	1	1.00	1.00	2.00
11	B12 Consulting	Belgium	0	0.00	0.00	0.00
12	CERN	Switzerland	11	15.00	3.00	18.00
13	INFN	Italy	108	129.00	101.00	230.00
14	UGent	Belgium	6	4.00	5.00	9.00
15	UNIMAN	United Kingdom	21	64.00	20.00	84.00
16	WIGNERRCP	Hungary	3	4.00	2.00	6.00
TOTAL			223	292.00	168.00	460.00

Total of 460 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 December 22, 2018

➤ INFN: 230 researcher months funded!

Eligible secondments

Eligible staff seconded under RISE are:

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

Guidelines:

- Seconded personnel must have had an employment contract, or a legal link or engagement with the home institution for at least 1 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 1 month FTE for eligibility

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 INTENSE 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 June 2020

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

- ❖ Training courses from home institutions
- ❖ Training courses @FNAL, YALE, MIT, Japan (software tools, management...)
- ❖ Webinars
- ❖ Synergies with other EU projects? (for example MUSE, NEWS)

Project Implementation

INTENSE activities organized in 8 Work Packages (WP):

WP Number ⁹	WP Title	Lead beneficiary ¹⁰	Start month ¹²	End month ¹³
WP1	Neutrino Detectors	6 - UBERN	1	48
WP2	Neutrino physics: event reconstruction tools	7 - UCAM	1	48
WP3	Neutrino physics: data analysis	13 - INFN	1	48
WP4	CLFV experiments	15 - UNIMAN	1	48
WP5	Muography	2 - UCL	1	48
WP6	Dissemination and Outreach	13 - INFN	1	48
WP7	Transfer of Knowledge	13 - INFN	1	48
WP8	Management	1 - UNIFI	1	48

Project Management

Two boards to run the project, to be implemented by January 2019
(**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
- Composed of the WP coordinators

Coordinamento generale: Università di Pisa

WP co-Leaders (= Scientific Board)

WP #	WP Name	Lead Beneficiary	Co-Leader	
1	Neutrino Detectors	UNIBE	M. Weber (UNIBE), G. Raselli (INFN), A. Fava (FNAL)	
2	Neutrino Physics: event reconstruction tools	UNICAM	L. Whiteheadt (UNICAM), A. Menegolli (INFN)	
3	Neutrino Physics: data analysis	INFN	D. Gibin (INFN), A. Szeic (UNIMAN)	
4	CLFV Experiments	UNIMAN	M. Lancaster (UNIMAN), E. Pedreschi (INFN), I. Sarra (INFN)	
5	Muography	UCL	A. Giammanco (UCL), C. Pistillo (UNIBE), G. Macedonio (INGV)	
6	Outreach And Dissemination	INFN	C. Luongo (INFN), C. Vignoli (INFN)	
7	Transfer of Knowledge	INFN	C. Vignoli (INFN), R. Sia (CLEVER), M. Tytgat (UGENT)	
8	Management	UNIFI	S. Donati (UNIFI)	

Scientific Board Chair: Daniele Gibin (INFN)

INTENSE: INFN

Sezione	PD (+NA)	PV (+MIB/LNGS)	CT	BO
Mesi uomo	15 + 1	16 + 2 + 1	3	9
Fondi 2019 (k€)	48	57	9	27

- Coordinatore INFN-PV: G.L. Raselli.
- Essenzialmente INTENSE viene creata come sigla d'appoggio per rimborso missioni per personale staff.
- Quando si apre una missione, utilizziamo la sigla INTENSE per 100 euro al giorno oltre a quella di ICARUS per coprire la parte rimanente di diaria e il viaggio.
- Per la missione, bisogna fornire CV, polizza assistenza sanitaria, relazione scientifica.