

**Memorandum of Agreement
between the Virgo collaboration
and the ARTEMIS group
for the participation to Virgo**

April, 2015

The purpose of this agreement is to describe the participation of the Artemis group to the Virgo collaboration. The period covered by this Memorandum is two years from the approval date of the VSC.

1. CNRS and INFN signed an agreement concerning the realization of an antenna, VIRGO, for the detection of gravitational waves on 27 June 1994 in Pisa. VIRGO consists of a three kilometer Fabry-Perot interferometric antenna aimed at the detection of gravitational waves in the frequency range 10-10000 Hz. The construction, exploitation and data analysis of the VIRGO antenna is under the responsibility of the Virgo collaboration, which has been defined in its present form in December 2001. The VIRGO collaboration is represented by its Spokesperson. The operation of the VIRGO antenna is supervised by the EGO Council.

2. The Past involvements of the ARTEMIS group are described in the previous MoAs.

3. The current (2014) ARTEMIS group responsibilities and contributions to Virgo working groups are the following:
 - Stochastic Group Co-Chair : Tania Regimbau
 - Multimessenger working group: Michel Boer

4. The ARTEMIS group contributions for Advanced Virgo are:
 - R&D of fiber amplifier: Frédéric Cleva, Li-Wei Wei , Mourad Merzougui, Jean-Pierre Coulon
 - PSL system for Advanced Virgo: Nary Man, Frédéric Cleva, Margherita Turconi, Fabien Kéfélian
 - IMC electronic lock: J-P.Coulon

5. The ARTEMIS group composition is:

Name	FTE	Author	Student	Activity and thesis argument if any
Bogaert Gilles	40%	Yes	No	R&D on parametric instability (R&D)
Boer Michel	40%	Yes	No	R&D on multimessengers & sources
Brillet Alain (&)	30%	Yes	No	Consultant for fiber amplifiers and lasers locking
Cleva Frédéric	65%	Yes	No	R&D HP Fiber lasers and PSL for AdV
Coulon Jean-Pierre	80%	Yes	No	Electronics of PSL Subsystem and PMC lock for AdV
Fournier Jean-Daniel	50%	Yes	No	R&D on signal processing of non-stationary noise
Heitmann Henrich	100%	Yes	No	AdV technical coordinator
Kéfélian Fabien (U)	90%	Yes	No	Participant in PSL subsystem AdV
Li-Wei Wei*	100%	Yes	Yes	PSL for AdV (+ R&D HP Fiber lasers)
Martellini Lionel (U)	80%	Yes	Yes	R&D on signal processing (DA)
Meacher Duncan	70%	Yes	Yes	Participant in stochastic sources (DA)
Merzougui Mourad	50%	Yes	No	Mechanics for PSL subsystem & Fiber R&D
Man Catherine-Nary	50%	Yes	No	Group leader & PSL subsystem responsible for AdV
Pichot Mikhael	90%	Yes	No	Optics simulation in Optics subsystem (AdV)
Regimbau Tania	70%	Yes	No	Participant in stochastic sources (DA)
Siellez Karelle	100%	Yes	Yes	R&D on multimessengers & sources (DA)
Turconi Margherita	100%	Yes	No	Participant in PSL subsystem AdV
Vinet Jean-Yves (&)	50%	Yes	No	Optical modelings and signal analysis (DA)

* joint PhD student with EGO
& emeritus

Remarks:

- In the activity section, specify the leading activity in each of the five main categories: Virgo operations (V), Advanced Virgo (AdV), Data Analysis (DA), long term activities (R&D). Indicate the FTE for each category. In case of an activity that cover several topics (like group leader), put it under Virgo operation
- For a person who just joined the collaboration, the date in the author column is the date when the person will be added in the author list. This date is one year after the joining of the collaboration (except for student where there is no delay)

- The label (U) means: teaching duties. In that case, the FTE is computed on the research time.

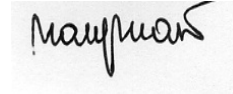
The ARTEMIS group leader will inform the collaboration of any change in the group composition and of any new thesis proposed.

Approved:



Virgo collaboration Spokesperson

1/04/2015
Date



ARTEMIS group Leader

1/04/2015
Date