

## VDQVDQ21/05/2014 Virgo Steering Committee meeting

### Present

Spokesperson	Jean-Yves Vinet (Elected ) Fulvio Ricci	A P	Former Spokespersons	Francesco Fidecaro	A
LAPP-Annecy	Frédérique Marion	P		Adalberto Giazotto Benoit Mours	A P
Firenze-Urbino	Andrea Viceré	Ph	EGO Director	Federico Ferrini	P
LMA-Lyon	Cagnoli	Ph	Advanced Virgo Project Leader	Giovanni Losurdo	P
Napoli	Enrico Calloni	P	Data Analysis coordinator	Pia Astone	Ph
OCA-Nice	Nary Man	Ph	Outreach coordinator	Carlo Bradaschia	P
LAL-Orsay	Patrice Hello	Ph	Run coordinator	Nicolas Leroy	A
APC-Paris	ECM	Ph	Radboud University	Gijs Nelemans	Ph
Perugia	Helios Vocca	P			
Pisa	Franco Frasconi	P			
Roma Tor Vergata	Viviana Fafone	P			
Roma La Sapienza	Piero Rapagnani	P			
Nikhef	Chris van den Broeck	A			
Padova/Trento	Giovanni Prodi	P			
Genova	Gianluca Gemme	Ph			
IMPAN Warsaw	Andrzej Krolak	Ph			
RMKI Budapest	Matyas Vasuth	Ph			
LKB	Samuel	P			

*Invited: Gergely Debreczeni, DAC coordinator.*

### **Agenda:**

- 1) Communications (Spokesperson)
- 2) EGO business (Ferrini)
- 3) News concerning the STAC outcome (Ferrini/Losurdo)
- 4) Advanced VIRGO business (Losurdo)
- 5) DAC business (Astone/Ricci)
- 6) Computing affair : approval of the new Virgo domain name « virgo-gw.org/eu » (Debreczeni)
- 7) VEB report (Gemme)
- 8) AOB

### *1) Communications from Spokespersons*

Pending affairs:

- Several MoAs received but some are still missing: Naples, Pisa, Trento/Padova, Nikhef, and LKB.
- Appointment of Detection committee members (4/5) to be done. Co-chair has to be nominated as well. Rational suggested is to appoint experienced physicists involved in the analysis.

Proposal made by Ricci : Vinet as co-chair plus as Members : Fidecaro, Mours, van den Brand Barsuglia, Calloni and Viceré.

Mours recommends involving all profiles/expertise in the composition of the committee since it will be working in closed session.

From American side, composition foresees 5 plus 2.

- LVC meeting organisation : rescoping LVC meetings will likely happen in 2016 and beyond. Main suggestions are to reduce to 4 full-days the duration of meetings starting with Caltech 2015 and to keep cost low. Possibility to organise a joint meeting at CERN likely to occur in 2017.
- VSC calendar : groups shall communicate if conflicts with dates proposed.

Next VSC June 11 and 25 : ok

Dates to be revised : november 19 due to STAC and ET meetings.

**End July 23 conflicts with French groups → Tuesday 22 July.**

Next Virgo week proposals : **Sept 10-12 ok, no VW before summer and December 9-11 with VSC on 11.**

- Regarding the elected Spokesperson, Vinet will write to EGO Council to inform that this change will become effective on a certain date. Council indeed is not asked to endorse but takes note.

### *2) Data Analysis (item anticipated in the agenda)*

Pia invites VSC members to read the summary concerning the important ongoing activities in DAC. Work for search trans is going ahead and many others are under review and shall be ready by September.

Computing needs in view of NSF review for LIGO. First review held ten days ago and only requests for CBC group were presented. All groups requests must be submitted now (optimization of pipelines to change some requests and reassess needs).

LIGO computing model will be presented soon.

From LIGO side it is seen as important that some efforts in computing be done.

Discussions with our EM partners on work organisation are ongoing ; some draft actions plan under preparation.

DA coordinator has to be renewed and Chairs of physics groups too if possible, as soon as possible. Groups are asked to send an e-mail to Ricci and Astone proposing candidates to the new DA coordinator and to the chairs of the groups.

Environmental Noise group particularly attention : Ricci proposes to have a single group involving noise and VDQ (name approved for that group: Detection characterization => Detchar) and to appoint a person more connected to commissioning with respect to DA.

Pia will forward names already received to Fulvio. All groups can send names as indications.

Decisions are to be made by VSC.

**Synchronisation of DA coordinator with renewal of group chairs (including Detchar).**

### *3) EGO business by Ferrini*

EGO Finances in 2014 difficult.

Large infrastructure expenditure foreseen : various sensors (oxygen ..etc) must be installed onsite for safety reasons. This will not be committed into AdV budget however.

STAC meeting : EGO activity reported plus status of European affairs. Actually 2 running projects and EGO involved into 3 proposals towards 2020 horizon : EGWII main proposal as coordinator, EGO also invited to participate in new astronnet network proposal (bridge for future collaborations) and last in atom interferometry design study.

4) *VEB news by Gemme*

**VSC approves « First all-sky search for continuous gravitational waves from unknown sources in binary system » paper.**

**VSC takes note of good news concerning IPN paper.**

AdV reference paper : deadline (June 30) to keep in mind. Petition received asking to include people who significantly contributed (Marque and Canuel) in authors list. Rules allow that.

Ferrini points out that other people might be missing (ex : Andrea Paoli..). Would be relevant to include some technical and engineers who contributed in the same extend.

Big Dog review article : No consensus on author list.

MAB and MAP were invited, may use therefore all published data.

**After discussions VSC agrees on short authors list provided that MAB and MAP :**

**Do not use any unpublished paper ;**

**Make clear they express their personal opinion and do not speak on behalf of Collaboration.**

- Appointment of new VEB member: candidates are Prodi and Ferrante.

**A third candidate (experimentalist with more HW profile) will be proposed by Ricci.**

**Timeline next VSC.**

5) *Outcome of STAC meeting by Ferrini and Losurdo*

STAC rather enthusiastic about status of project. Noticed big progress in various subsystems, good spirit and motivation on site.

From technical side, support to some subsystems is suffering from delay : STAC recommends the groups to focus on their activities. In closed session, STAC praised support from fellowship program.

Issue on Heitmann was discussed as well. Solution foreseen is that Nice sends Henrich on short mission (typically 6 weeks) then back for one week in Nice.

Renewal of STAC member : proposal to Council to keep Harald till end of project.

6) *AdV status and outcome of STAC by Losurdo*

Fellowships and uncommitted funds : two requests received from Perugia (Travasso, key person for silica suspensions activity, one more year) and from EGO Vacuum (very large pieces have to be installed while lots of everyday work).

Bradaschia points out how urgent support is needed for the vacuum.

Losurdo proposes first to look for support among the Collaboration labs.

Decision on vacuum will be taken at next VSC.

Sensitivity curve issue : proposal to think about is to remove technical noises and maintain safety factor at low frequency → Update model for thermal and Newtonian noises.

7) *Virgo domain (Debreczeni)*

It is proposed as new domain « virgo-gw.org/eu ».

Only booking of domain till new virgo website structure will be put

**VSC approves.**

8) *AOB*

Squeezing : next steps ? Discussions during next VSC on how to proceed in this direction.