vendredi 4 mai 18

With the presentation tomorrow of Stephano Vitale you will know all about LISA and his futur. That is why I shall speak essentially about the Pierre's perpetual implication in this project.

That is why I shall speak essentially about the Pierre's perpetual implication in this project.
- 12 or 13 years ago the French institutions of research was not participating to the LISA project for different raisons that I won't mention here

Of course I do not forget the Many French physicists involved in the subject of gravitational waves. But the complete list would be too long here with "Virgo team » and all the theoretical efforts in GW.

Just after the creation of the APC (With Pierre as director), it decides and convinces three APC members (myself and E.Plagnol, P.Prat) to join the Lisa consortium.

That is the easy part
The second point, of Pierre was to convince, the CNES, the CNRS-IN2P3 and of course the LISA consortium to participate in the construction and the data analysis of LISAPathfinder.
With the perpetual presence of Pierre in many meetings, the APC obtained the signature of an agreement CNRS-IN2P3, and the participation activates of the CNES to LISAPathfinder.
LISA FRANCE

APC
ARTEMIS
CEA/IRFU
CEAIPHTCNES
LUTH
SYRTHE
IAP
ONERA

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Even at the same time it creates the LISA-FRANCE (the French group of laboratory) with 9 laboratory

An annual workshop are organized in various laboratories.

Each of the participating laboratories receives a subsidy CNES

An annual workshop are organized in various laboratories.
waiting for the take off and the flight of LisaPathfinder
Pierre always put his weight and his knowledge in all meetings with the ESA, CNES and the LISA consortium to finalize the participation of the French community to eLISA.
After the excellent results of LISAPathfinder and the decision of ESA
Lisa is now under construction with ESA and the LISA consortium, French community participates in this ambitious mission with the financial and technical support of the CNES.
the gradient energy of the Higgs field strongly dominates the energ 

propagation is always in the runaway regime [48]; for reasonable valu 

the GW signal. We show the corresponding GW spectrum in Fig. 3. In th 

of GW has been analysed already both in [47] and [48]: in particular, Ref 

in the GW signal. The validity of the envelope approximation is not put int 

extreme supercooling: the PT is strongly first-order, so that 

by Randall and Servant 2007 [47] and then by Konstandin et al 2010 

the holographic PT corresponding to the stabilisation of the radion in 

adapted to describe such a situation, since the validity of the envelo 

spectra for

FIG. 3: GW spectra for the holographic PT [47, 48]. The black l 

κ 

is related to the turbulent eddy turnover time and not the inverse s 

From the two examples above, it appears that once a model for the 

approximation. For a weakly first-order PT, the bubble wall velocity 

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1 0 0 G e V , a n d f r o m t o p t o b o t t o m 

v 

10, the amplitude of the GW spectrum becomes virtually independent 

while the one from MHD turbulence to the size of the bubbles 

outside his activity as leader of the French LISA collaboration, he pursued a scientific work on one of these themes of preference: Cosmological Backgrounds of 

Gravitational Waves : Pierre Binétruy and all (2016) 

Now the French team is in working order, again new French laboratory joined LISA-France. 

Always with a will without defect it organize a GDR-IN2P3 GW.
That to say now if it is not

"thank you Pierre for your perpetual enthusiasm and your working capacity"

You will be lacking to the French research and Thank you for this inheritance, it is now at the community to pursue it.
Hâtez-vous lentement, et sans perdre courage,
vingt fois sur le métier remettez votre ouvrage,
Polissez-le sans cesse .... (Boileau)

« And so I urge them, as I urge you, to persevere
and, as the saying goes, to 'try, try, try again'. »