

# Galactic

April 2008 sees the birth of <https://confluence.slac.stanford.edu/display/SCIGRPS/Galactic+Sources>

Today, the following e-mail arrived. Off-hand, sure! we want to engage mutually profitable cooperation! Then again, one wonders:

- has any such thing already been organized with HESS and/or VERITAS?
- the extragalactic people are ahead of us in thinking about this, so we want to touch base with them...

Date: Tue, 29 Apr 2008 08:45:29 +0200

From: Diego F. Torres <dtorres@ieec.uab.es>

To: Juan Cortina <cortina@ifae.es>, D.A. Smith <smith@cenbg.in2p3.fr>, Alice Harding <Alice.K.Harding@nasa.gov>, Dave Thompson <dj@milkyway.gsfc.nasa.gov>, Francesco Longo <franzflongo@gmail.com>

Subject: magic and glast

Dear Alice and David (cc, Franz, Dave, Juan Cortina)

As you probably know, MAGIC and GLAST collaboration are trying to work on an agreement to share alerts and information on specific sources. This has been proceeding slowly, but progressed, and as far as I am now aware following the last MAGIC collaboration meeting, this agreement is close to be accepted by both teams. Dave Thompson, from GLAST, has been active in this regard. Franz Longo has been active from the MAGIC side. If you need more details, they can certainly provide the specifics.

It has been suggested to us recently, that we (i.e., Juan Cortina and myself, as coordinators of the Galactic Science Working Group in MAGIC) should contact you directly to discuss aspects of the intended science in this agreement. The same has happened recently between AGN groups in both collaborations. Particularly, to raise awareness that these science opportunities exist and to possibly to invite a few GLAST collaborators over into this area of research. Thus, if you feel this message should be posted in the Confluence Galactic webpage, please do so.

>From the MAGIC side, at the Galactic realm, we were thinking on the following areas of possible common work

-- broad band energy spectra from flaring / interesting otherwise sources. We had already co-presented a proposal in the GLAST AO-1 covering the MW observations of all publicly announced GLAST sources at low galactic latitude, which we will follow with MAGIC. For the non-publicly released GLAST sources, if they are under the provisions of the agreement, and officially released to MAGIC, we will follow them too.

-- hard (or rising) sources (i.e., in their spectral shape) above 1 to 10 GeV. These are notable new cases for GLAST, since EGRET did detect only 1500 photons above 10 GeV. Models for Inverse Compton peaks, hadronic diffusion peaks, or inverted spectra have been theoretically worked out, and they show new phenomenology in this energy range; plus of course, the surprises we could get. A broad band study of such sources (obvious candidates for MAGIC detection) seems very appealing.

We are of course open to suggestions that may arise from the group.

I am myself a GLAST member, and my group here is also interested in the aspects described above, I hope we could collaborate in these issues for the benefit of both collaborations.

With best regards

Diego

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