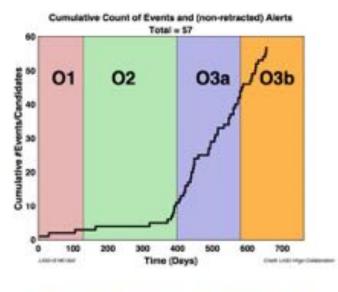


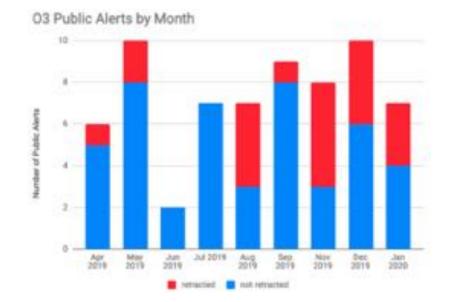
## Status GW searches

Transient WG telcon - 22.01.2020

- Telcon on Jan 16: <u>https://wiki.gw-astronomy.org/OpenLVEM/Telecon20200116</u>
- End of )3 expected April 30th; KAGRA will join.

Some stats. 19 alerts including 8 retractions since the last OpenLVEM telecon on Nov/21/2019.







## MAGIC GW proposal Cycle 15

- Will cover the end of the scientific run O3 of LIGO-Virgo (end April 2020)
- · Approved requested time
- Autonomous MAGIC follow-up: 2 triggers, 3 hours each; (4 hours in DT, 2 hours in MT);
- Follow-up of identified transients: 2 triggers
  3 hours each, (4 hours in DT, 2 hour in MT);
- Observation of delayed emission: 2 triggers
  5 hours each, dark time (10 hours)

				Co-investigators
TOTAL REQUESTED TIME	E	proposal type		Berti, / [analysis]
TOTAL 0.00 hours [+ 24.0 DARK 0.00 hours [+ 20.0	0 hours ToO]	ToO multi-frequency monitoring		Patricelli, B [theory]
MOON 0.00 hours [+ 4.0	0 hours ToO]	multi-year		Blanch, [analysis]
				Artero, I [analysis]
Principal investigator Stamerra, Antonio institute: INAF-Roma				Righi, [analysis]
email: antonio.stamerra@inaf.it phone:				Covino, S [interpretation]
Backup responsible	Principal inve	estigator (The	ory)	Longo, Frai
Covino, Stefano	Inoue, Sus	sumu		[multi-wavelength
email: stefano.covino@inaf.it phone:		u.inoue@riken.jp		Bosnjak, [theory]
				Fattorini [analysis]

oo mitoonguloio	
Berti, Alessio	email: phone:
(analysis)	institute: INFN-Torino
Patricelli, Barbara	email: barbara.patricelli@inaf.it phone:
[theory]	institute: INFN-Pisa and Univ. Pisa and INAF-Rome
Blanch, Oscar	email: phone:
[analysis]	Institute: IFAE
Artero, Manuel	email: martero@ifae.es phone:
[analysis]	institute: IFAE
Righi, Chiara	email: chiara.righi@inaf.it phone:
[analysis]	institute: INAF
Covino, Stefano	email: stefano.covino@inaf.it phone:
[interpretation]	institute: INAF
Longo, Francesco	email: franziongo1969@gmail.com phone:
[multi-wavelength]	institute: INFN Trieste
Bosnjak, Zeljka	email: Zeljka.Bosnjak@fer.hr phone:
[theory]	institute: Univ. Zagreb
Fattorini, Alicia	email: alicia.fattorini@tu-dortmund.de phone:
[analysis]	institute: Univ. Dortmund
D Elia, Valerio	email: valerio.della@ssdc.asi.it phone:
(multi-wavelength)	institute: INAF
Inoue, Susumu	email: susumu.inoue@riken.jp phone:
[theory]	institute: RIKEN
Satalecka, Konstancja	email: konstancja.satalecka@desy.de phone:
(anatysis)	institute: DESY
Majumdar, Pratik	email: majumdar.mpratik@gmail.com phone:
[multi-wavelength]	institute: Saha Inst.
Nava, Lara	email: lara.nava@inaf.it phone:
[theory]	institute: INAF
Antonelli, Lucio Angelo	
[multi-wavelength]	institute: INAF
Becerra Gonzales, Josepa	email: jbecerragonzalez@gmail.com phone:
[interpretation]	institute: IAC
Tavecchio, Fabrizio	
[interpretation]	institute: INAF
Miceli, Davide	것은 것 것을 보면 것 같아. 이 있 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
[analysis]	institute: INFN-Trieste
Righi, Chiara	
[analysis]	institute: INAF

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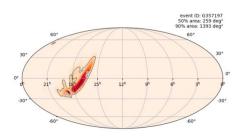


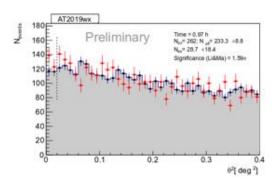
- Regular shifts started in November 2019 on a weekly base
  - GWEC team: Stefano Covino, Alessio Berti, Valerio D'Elia, Oscar Blanch Bigas, Konstancja Satalecka, Franz, Elena Moretti, Davide Miceli, Jarred Green, Josefa Becerra, Chiara Righi, Antonio Stamerra
    - Reports on the wiki: http://wiki.magic.pic.es/index.php/Observing\_run\_O3

						Week 24 February - 1	Week 02-08 March	Week 09-15 March		Week 23-29 March	Week 30 March - 5 April			Week 20-	Week 27-
and the second second	January	February	recordiany	February	recolution	March .		March	March	March	(April	Pre-pr	Tar April	20 401	SurAphi
Stefano Covino		x					x						x		
Alessio Berti			x	X				x			x				
Valerio D'Ella					x				X						x
Oscar Blanch Bigas		x					x							х	
Konst,	х									(20)					
Franz			x			х						X			
Elena Moretti											х				
Davide Miceli						x		x						X	
Jarred Green										x					x
Josefa Becerra				х					x						
Chiara Righi					х								х		
Antonio Stamerra	х									x		X		(X)	



- · GW alert: S191213g
  - NS-NS merger
  - Interesting candidate from optical transient AT2019wxt in a galaxy at compatible distance
  - observations by MAGIC on 18,19,20 Dec
    - stopped when spectroscopy revealed it as a SNiiB not related to the GW alert
- http://wiki.magic.pic.es/index.php/AT2019wxt\_Follow-up\_Fast\_Analysis\_Dec\_2019
- · GWalert: S191216ap
  - mass-gap event
  - muon-track by IceCube
  - >1TeV excess from HAWC
- Observations by MAGIC on Dec 16th (ON mode...)
- Analysis not yet completed.
- http://wiki.magic.pic.es/index.php/S191216ap\_Follow-up\_Fast\_Analysis\_Dec\_2019









## Procedure - Fast-ToO

- Procedure for shifters is ready
- Fast-ToO procedure is somewhat ready, but yet needs to be tested on the field.
  - A web form is filled by GWEC with positions/candidates
  - GCN-fake will send a GCN to the alert system.
  - Not clear how to handle the fast movement (not really needed)
- · GWEC manual actively drafted
  - https://www.dropbox.com/s/ ohz178z6c9rn5l8/GWEC\_manual.pdf? dl=0

		The MAGIC Telescopes											
MAGIC													
Laren	Mari Ales Koji	Name kus Gaug kus Garczarczy sio Berti Noda icesco Longo	Email markus.gaug@uab.c /k garcz@mppmu.mpg. alessioberti90@gma nodak@icrr.u-tokyo.a francesco.longo@ts.	de il.com ac.jp	Telephon +34 6712024 +49 1791718 +39 3472525 +81 9021623 +39 3389099	46 mar 770 mga 984 ales 320 nod	siosharingan ak_grb031027		Tł				
100 m	Kon		kakonstancja.satalecka moretti@ifae.es			0610 kon		Uμ	JÜ				
MAGIC Introduction Site Information Contacts			Time to next regard A Burst Advocates g A Automatic Alert Sy	guide ca	n be found	here	nd here		sy				
DOM: Operating the telescope		THE MAGIC	The analysis guid					inst	ru				
TOM: Technical Operations Manual		List	of MAGIC G				/e						
Webcams			Experts on	Call	•								
last modification	Ante	Name nio Stamerra	Email antonio.stamerra@in	of it	Telephor		Skype nio.stamerra						
last modification 26.11.19 by MAGIC Webforce		ra Righi	chiara.righi@inaf.it	ar.n	+39 3492832								
	Dav Osc Stef Fran Ales	stancja Sataleo ide Miceli ar Blanch ano Covino icesco Longo sio Berti rio D'Elia	ka konstancja, satalecka davide.miceli 1993@ blanch@ifae.es stefano.covino@bref francesco.longo@ts. alessioberti90@gma vaterio.delia@ssdc.a	gmail.com a.inaf.it infn.it il.com		876 dav 43 osc 534 stef 581 fran 984 ales	de.miceli1993 arblanchbigas ano.covino zflongo siosharingan						
MAGIC	I	ast-ToO	submission	form									
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	2	54	6.1186	19.1358		9	19-11-26 22:30:35	39900					
antonio stamenia	3	wwy3	12.1356	-2.1354		2	19-11-26 11-25:35	0					
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/gcnsim\_gw GW\_MAGIC\_SPECIAL 51 TRIGGERID(tbd) 3.0678 4.0678 0

gonsim\_gw GW\_MAGIC\_SPECIAL s4 TRUGGERID(tbd) 6.1186 19.1356 (

sleep 30900s

shee 39900e

Pressing the button the telescopes will mov

Welcome testN

Tue, 26 Nov 2

Thanks to active updates on the alert system and web nstructions by Alessio!