

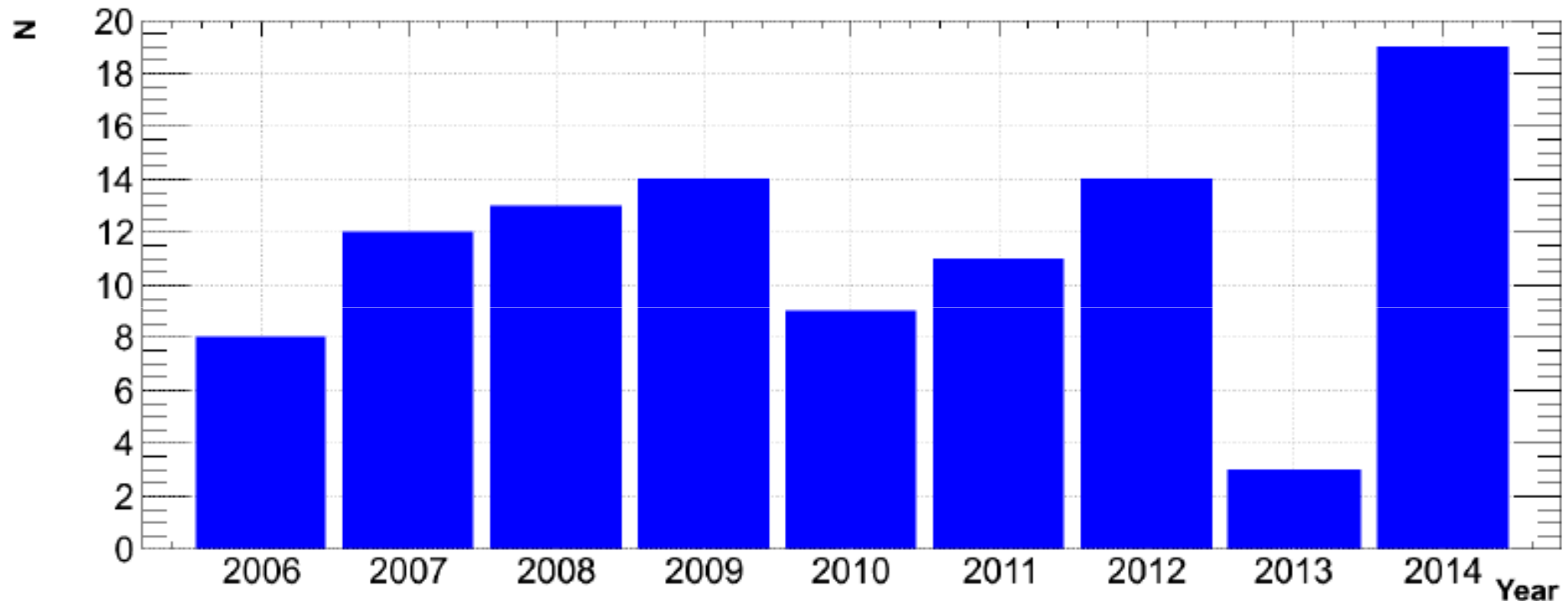
Magic – Preventivi locali di Spesa

- Attività 2014
- Preventivo locale di spesa 2015
- Richieste ai servizi della Sezione



R. Paoletti – Pisa 2/7/2014

MAGIC publications since 2006



Papers in 2014: 8 published, 6 accepted, 4 submitted

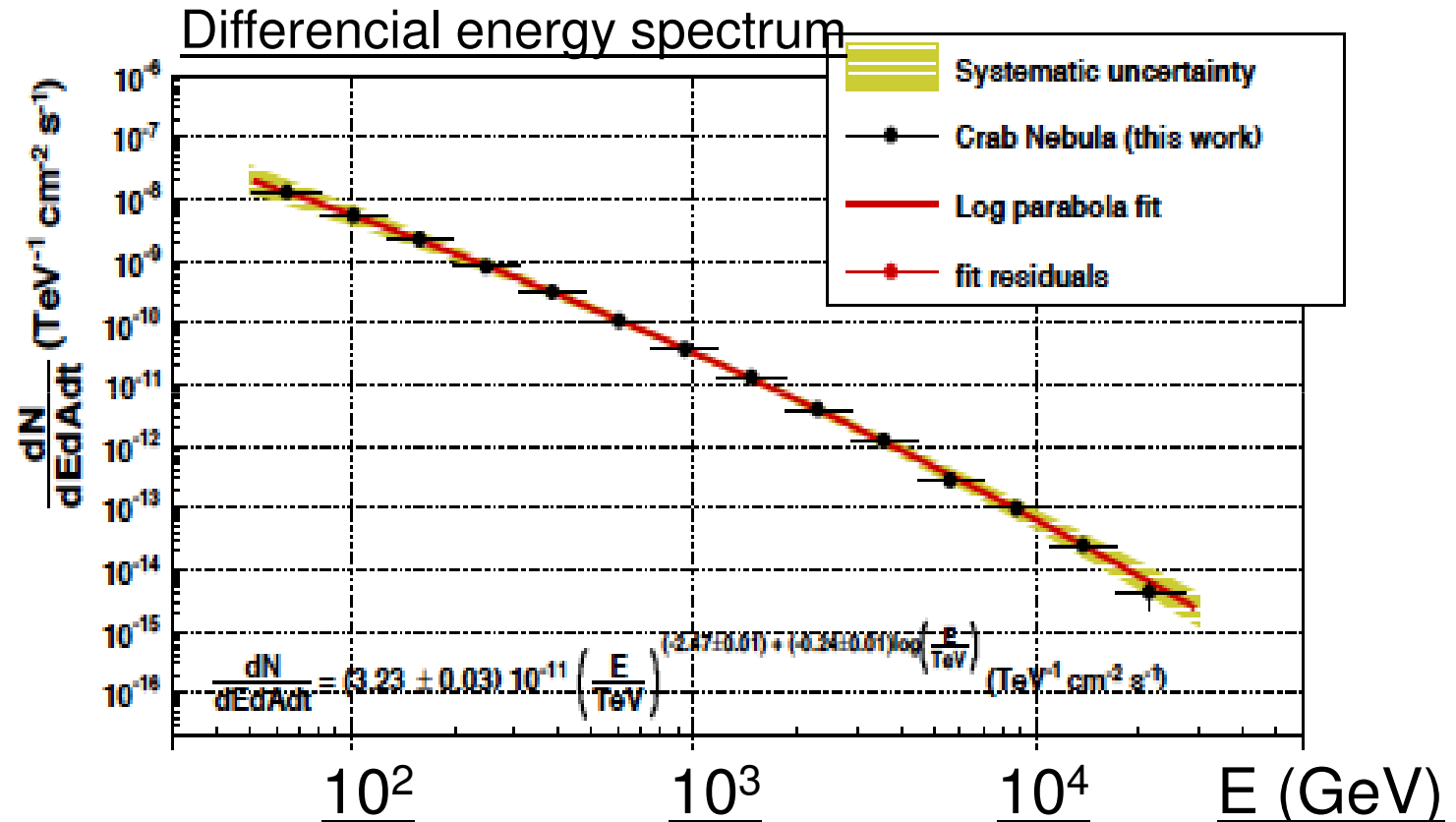
Year 2014 is not yet finished !

2014 MAGIC published papers

- Search for Very-High-Energy Gamma Rays from the $z = 0.896$ Quasar 4C +55.17 with the MAGIC telescopes
MNRAS 440 (2014) 530
- Optimized dark matter searches in deep observations of Segue 1 with MAGIC
JCAP 02 (2014) 008
- Contemporaneous observations of the radio galaxy NGC 1275 from radio to very high energy gamma-rays.
A&A 564 (2014) 5
- Detection of bridge emission above 50 GeV from the Crab pulsar with the MAGIC telescopes
A&A 565 (2014) 12
- Discovery of very high energy gamma-ray emission from the blazar 1ES 1727+502 with the MAGIC Telescopes
A&A 563 (2014) 90
- MAGIC upper limits on the GRB 090102 afterglow
MNRAS 437 (2014) 3103-3111
- Multifrequency Studies of the Peculiar Quasar 4C+21.35 during the 2010 Flaring Activity
ApJ 786 (2014) 157
- Rapid and multi-band variability of the TeV-bright active nucleus of the galaxy IC 310
A&A 563 (2014) 91

Crab Nebula spectrum over three decades in energy

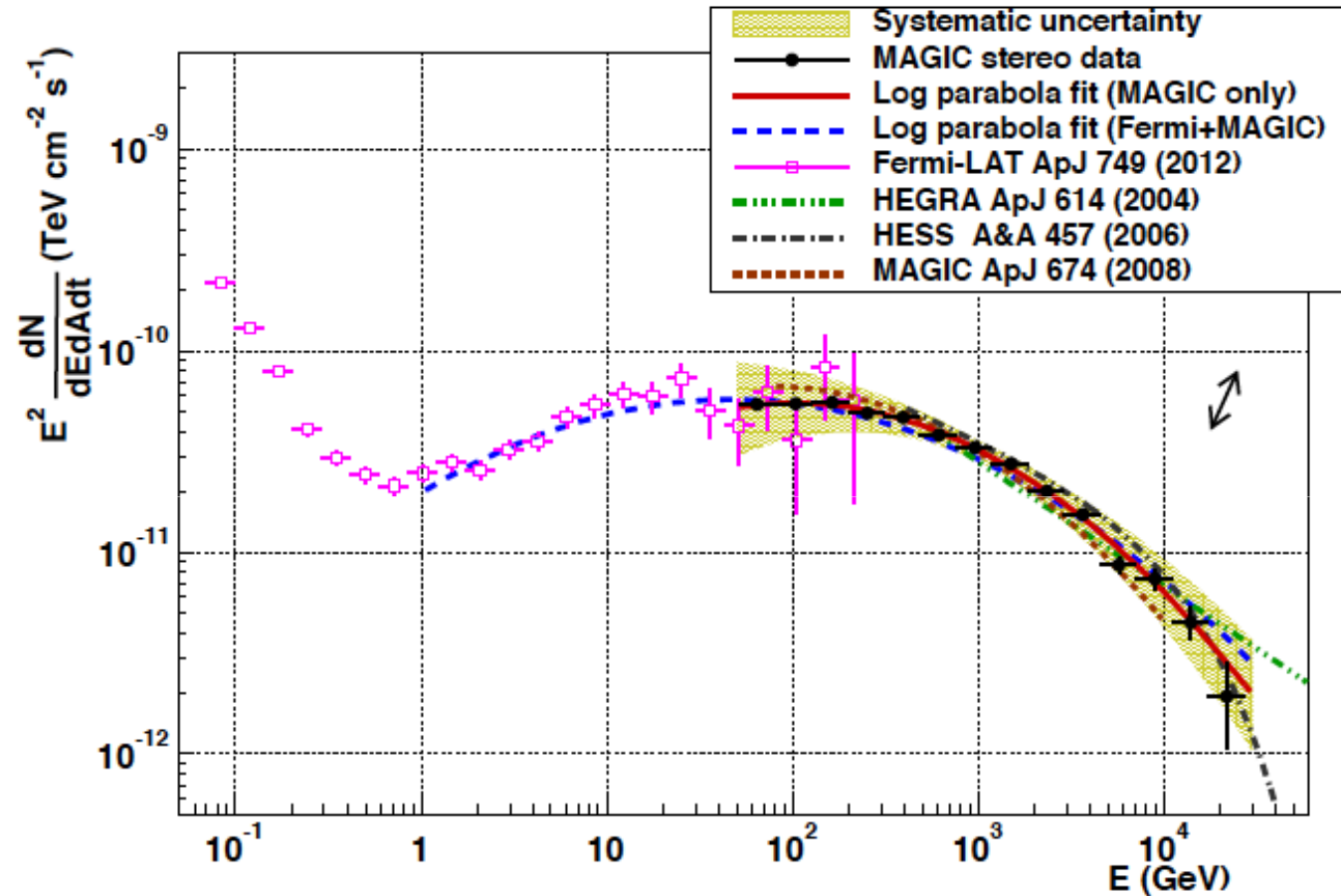
69 hours
with MAGIC
stereoscopic
system



- unprecedented precision of spectral and night-by-night light curve determination
- detailed test of the two state-of-the-art Crab Nebula theoretical models

arXiv:14.06.6892

Spectral energy distribution



IC peak : 53 ± 3 GeV

No hint of integral flux variability on daily scales at $E > 300$ GeV

ATels

- #5768: Discovery RBS 0723, BL Lac, $z = 0.198$
- #5880: Upper limit on SN2014J in M82
- #5887: Exceptionally high > 100 GeV flux from 1ES 1011+496 (blazar, $z=0.212$)
- #6062: Discovery RX J1136.5+6737, BL Lac, $z=0.134$
- a GCN circular:
 - TITLE: GCN CIRCULAR
NUMBER: 16238
SUBJECT: VHE gamma-ray observations by MAGIC of SWIFT Trigger 596958
DATE: 14/05/09 16:22:01 GMT
FROM: Razmik Mirzoyan at
MPI/MAGIC <Razmik.Mirzoyan@mpp.mpg.de>

On 23th April 2014 at 21:08:26 UT, the MAGIC telescopes received a GRB-like event alert from Swift....

work in progress:
Key Observation Programs

New strategy to be more incisive in the
Physics outcome

KOP: EBL

Measuring the Extragalactic Background
Light with Very High Energy γ rays

KOP: GRB

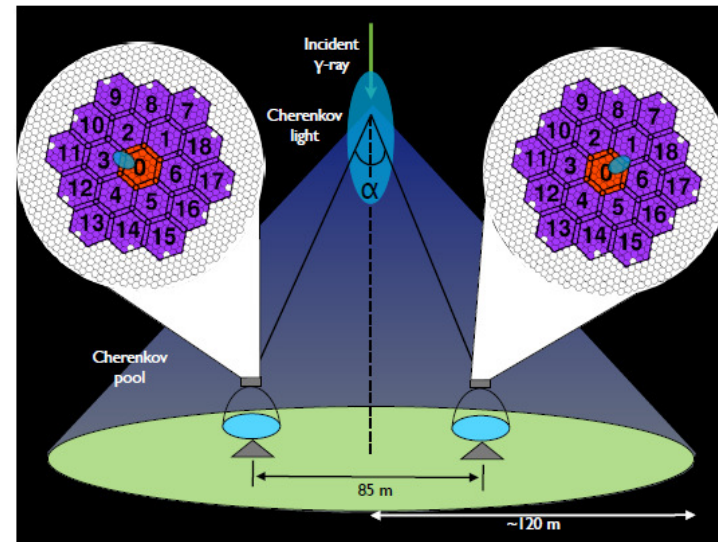
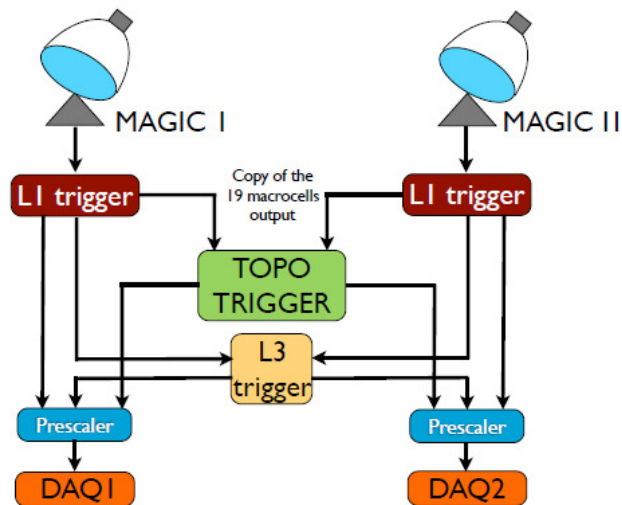
still observing, good reliability of the
system, no detection yet

News

- MAGIC applied to the **LIGO-VIRGO-EGO open call for EM-GW identification and follow-up** observation of Gravitational Waves event candidates
- Given the poor sky localization of GW signals a coordination between MAGIC and other em observers is mandatory
- MAGIC could profit of its experience in GRB hunt
- An observational strategy has to be defined
- ToO proposal for next observation cycle under study

Activities 2014-2015

- Upgrade sistema di trigger per selezione topologica di eventi
- Upgrade sistema di trigger con nuova elettronica
- Cambio della frequenza di campionamento del readout
- Manutenzione del sistema di readout & trigger



Personale

			FTE
1	Da Vela Paolo	As. Ric.	50
2	Paoletti Riccardo	Prof. Associato	50
3	Prada Moroni P.G.	Ricercatore	40
4	Shore Steven	Prof. Ordinario	30
5	Jose Miquel Miranda	Prof. Associato	50
6	Pedro Antoranz	Ricercatore	50
7	Diego Tescaro	Post Doc	50
			370

Magic-Pisa richieste 2015

Capitolo		Richieste	Totale
Interno	Spostamento tra sedi	10	18
	Riunioni Analisi/Software	8	
Estero			40
	Turni Presa Dati	12	
	Turni Tecnici	12	
	Meetings di collaborazione	16	
Consumo	Manutenzione readout & trigger		15
Trasporti			
Inventario			
Apparati	Aggiornamento trigger		
		Totale	73