MAGIC through the eyes of the spokesmen its King



Juan Cortina
"15 years of MAGIC"
27-29 June 2018
Hotel Taburiente Playa



1995: "XXIV ICRC" Rome and "Towards a major..." IV in Padova



Groundbreaking: MAGIC 1

IFAE is here to install a camera.



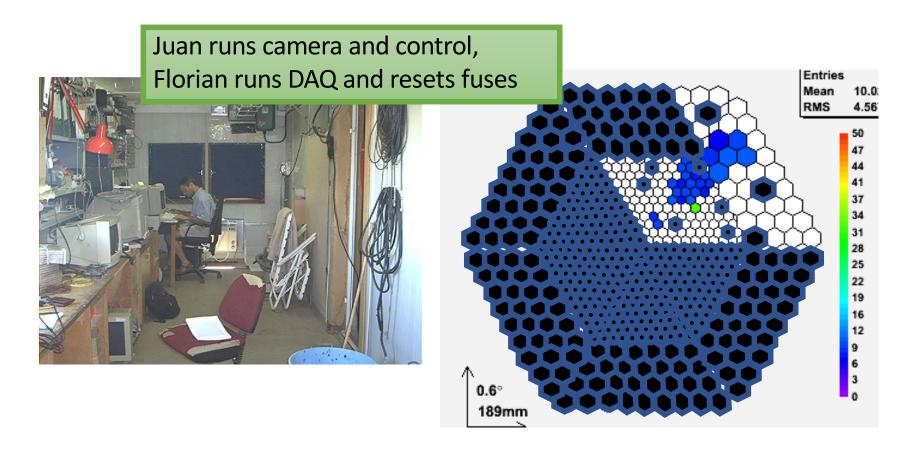
Eckart, on the proposal to build a control house: "Really good science is always made in a container"





How did I get into this?

MAGIC's first event



MAGIC's first event

Only consolation: VERITAS was even slower than us ©

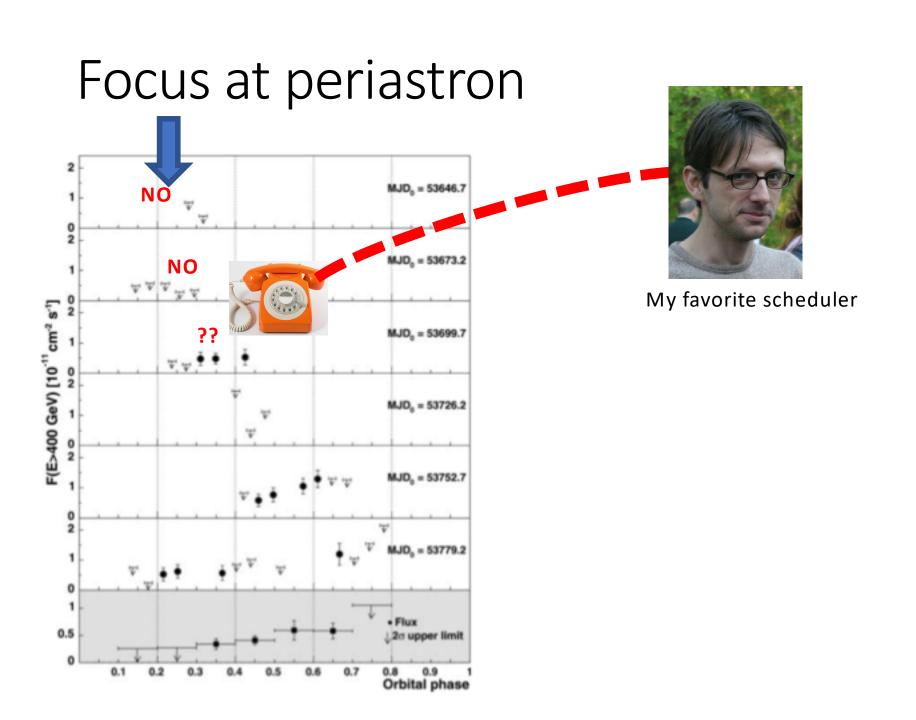


LS I+61 303

LS I team at IFAE (and Emma*)

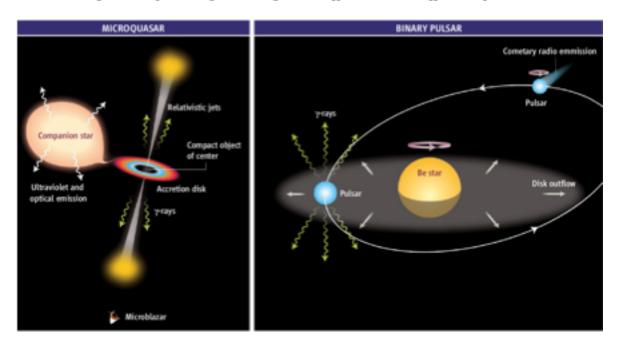


* maybe representing Diego Torres...



Variable Very-High-Energy Gamma-Ray Emission from the Microquasar LS I +61 303

Albert,¹ E. Aliu,² H. Anderhub,³ P. Antoranz,⁴ A. Armada,² M. Asensio,⁴ C. Baixeras,⁵
 A. Barrio,⁴ M. Bartelt,⁶ H. Bartko,⁷ D. Bastieri,⁸ S. R. Bavikadi,⁹ W. Bednarek,¹⁰ K. Berger,¹



- First MAGIC paper in Science: 2006
- Real psychological breakthrough for collaboration



"Sir, it's time to upgrade our technology. We've used up the last of our computer punch cards."

Upgrade (or bust)

First I was upgraded



Father of twins, September 2011

Then I was upgraded again



Spokesman of MAGIC, January 2012

And then MAGIC went for its upgrade



Plan:

- ✓ Replace MAGIC-1 camera with clone of MAGIC-2 camera.
- ✓ Replace both readouts with new ones.
- ✓ Install new sumtrigger.

Plan faces reality

Reality:

- New MAGIC-1 camera is (perhaps) too heavy
- ★ MAGIC-1 arch cracks
- ➤ Delay in new readout
- No sumtrigger in sight
- ★ Old MAGIC-1 camera burns





But we made it



MAGIC reloaded

Best performance ever.

Easy to maintain and reliable.

Stable ever since.

- Upgrade completed: Summer 2012
- 12/13 November 2012 : IC 310 flares

RESEARCH ARTICLES

First Science paper with MAGIC stereo

BLACK HOLE PHYSICS

Black hole lightning due to particle acceleration at subhorizon scales

J. Aleksić, S. Ansoldi, L. A. Antonelli, P. Antoranz, A. Babic, P. Bangale,

Conclusions



Bonus



ICRC Rome 1995