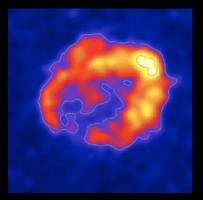
HESS/CTA L'astronomie gamma au sol ou astronomie des très hautes énergies

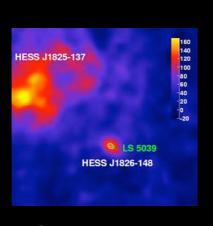
Piera L. Ghia

Motivations:

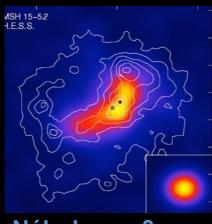
Sources galactiques - Sources extra-galactiques Physique fondamentale



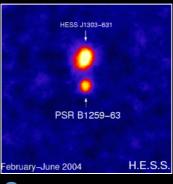
SNR &
Sources de
Rayonnement
cosmique Gal.



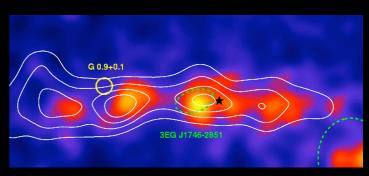
micro-quasar



Nébuleuse & Pulsars



Sources non identifiées



Origine des rayons cosmiques

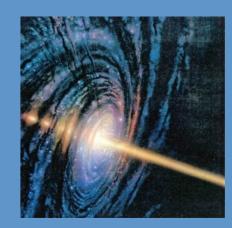
Astrophysique

Astroparticules

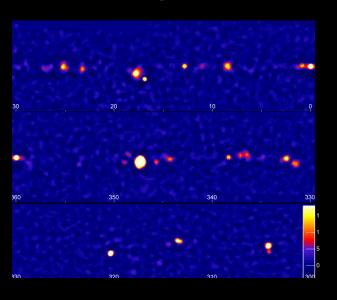
Astroparticules

Cosmologie

AGNs, galaxies à flambée d'étoiles, clusters, GRB.

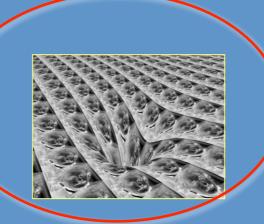


Populations galactiques



Matière noire
G 0.9+0.1
3EG J1746-285

fond infrarouge Gravité quantique





GRB

THEMISTOCLE
~1989
1 source
La Nébuleuse du Crabe









CAT 1995 – 2000 4 sources de classe A...

HESS I & 2 1999 - 20?? ~100 sources



CTA 2006 - 20?? 1 000 sources ?



HESS

≈ 120 collaborateurs

Germany **France United Kingdom** Namibia South Africa Czech Republic Ireland Armenia Poland Australia

APC CESR IRFU LAOG LAPP LLR LUPM LUPM LUTH

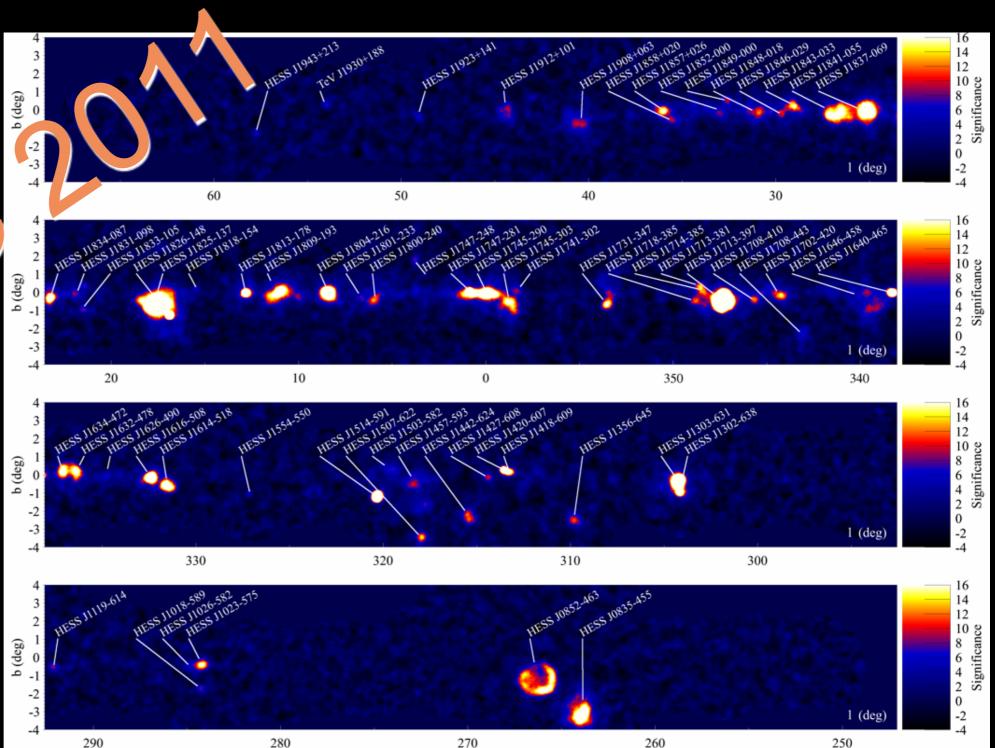
Les résultats les plus récents (@ICRC 2011, 31 papiers)



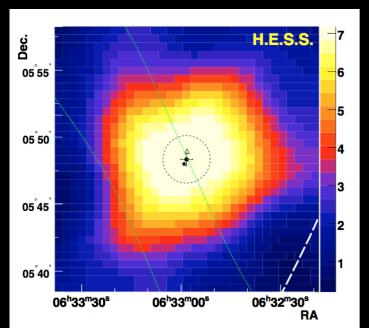
Le Plan Galactique



10 nouvelles sources en 2010-2011

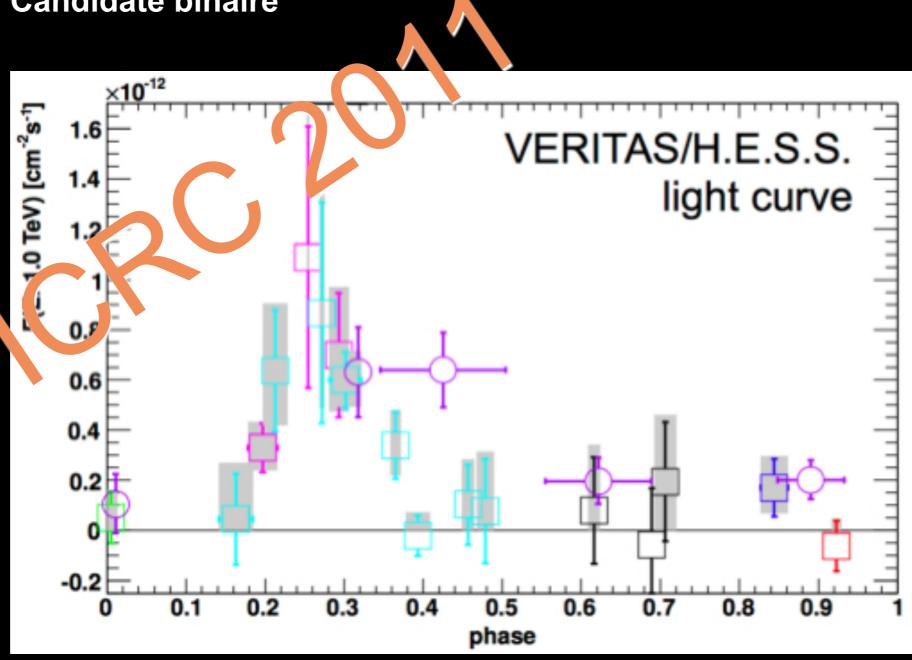


Première binaire découverte au TeV



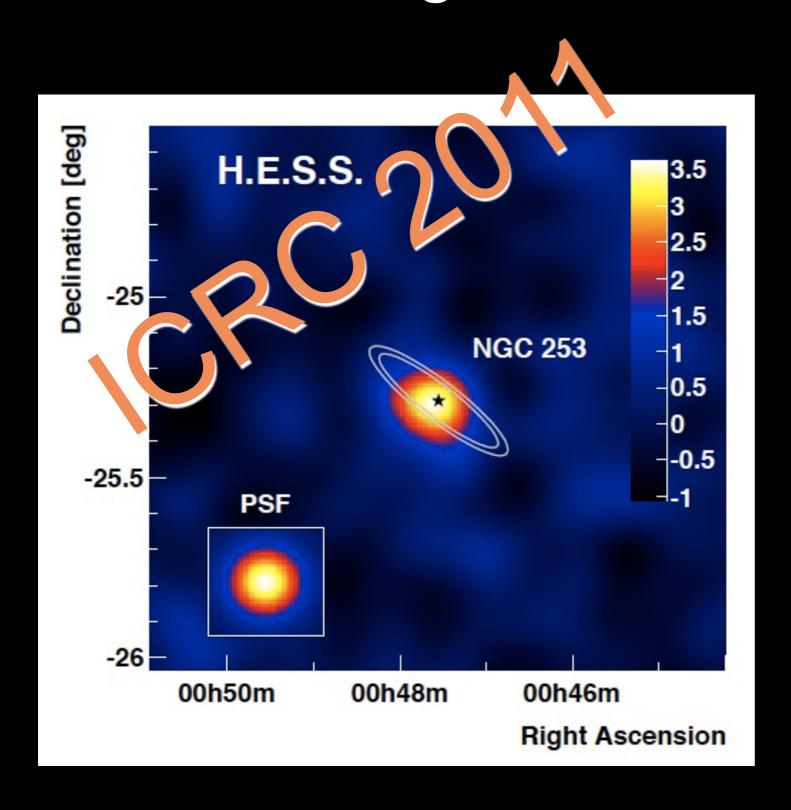


45 h d' observations 5.6 σ (2004/2005) Candidate binaire



Périodicité: 321±5 jours

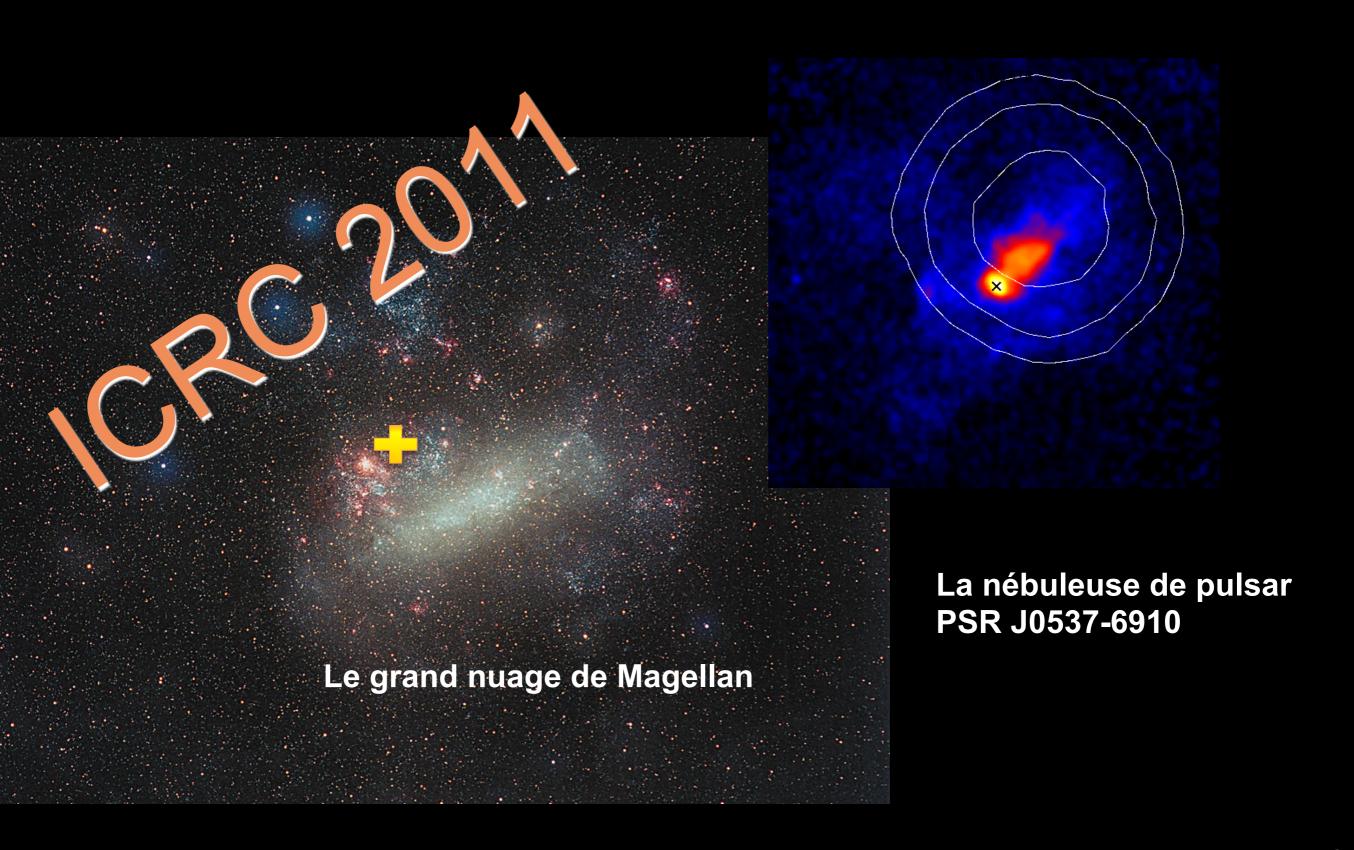
Première galaxie à flambée d'étoiles





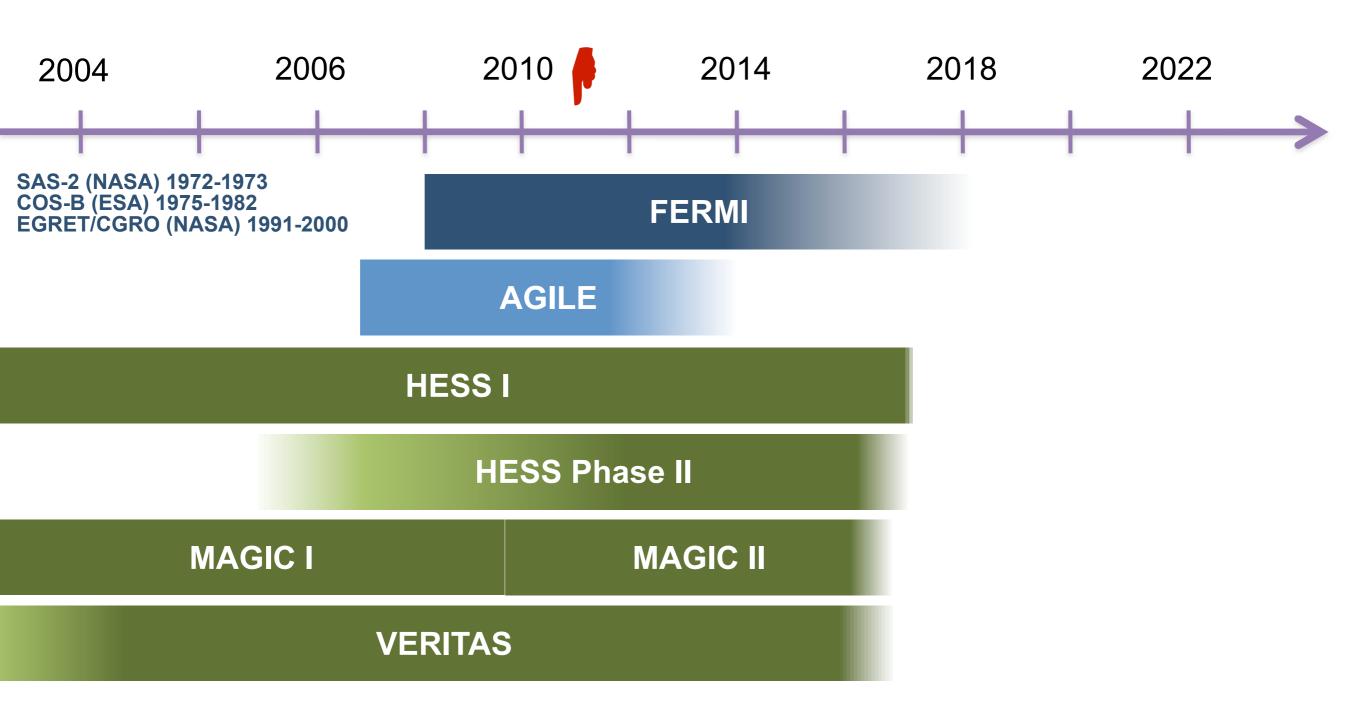
NGC 253

Première source étendue extragalactique

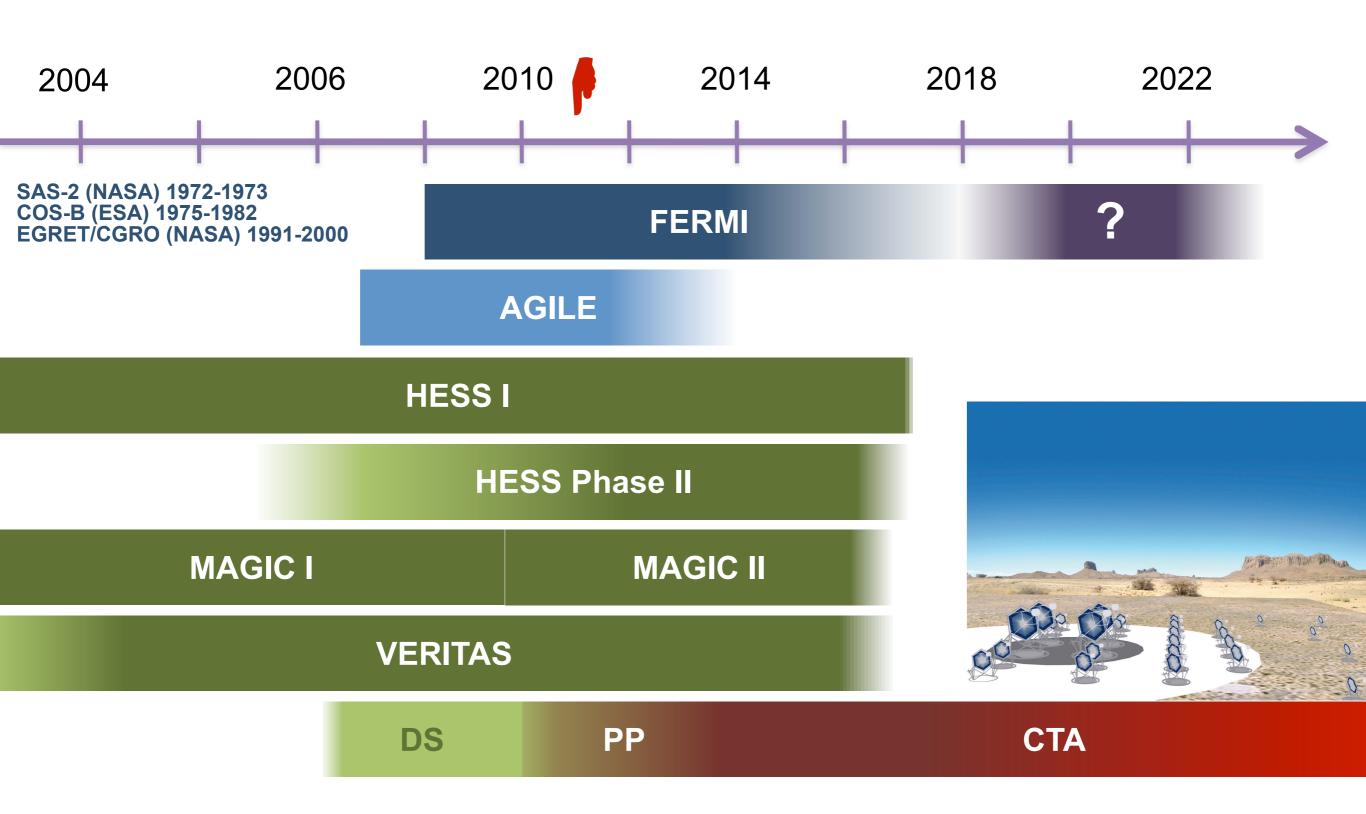




Astronomie Gamma des hautes énergies



Astronomie Gamma des hautes énergies



Et maintenant...

Julien Bolmont.....L'expérience HESS

Christopher L. Naumann....Le projet CTA

François Toussenel...Les développements techniques