		SUN	THURSDAY	JANUARY 2009 - 00H00	Rho Ophiuchi Saturn	Orion Nebula	Messier Object 35
Center of the Galaxy	1	SATURN	THURSDAY	JANUARY 2009-01H09	394 I.y. 69 light-minutes	1 760 l.y.	2 800 l.y.
"Black hole"	VOYAGE	SIRIUS	MONDAY (2	AUGUST 2017	Cat's Fue		
26 000 l.y.	- AL	51 PEGASUS	WEDNESDAY	MARCH 2059	Nebula 501, y.		
	-CENTR-	RHO OPHIUCHI	TUESDAY	MAY 2403	3 300 l.y.		
	DEINE	ORION NEBULA	MONDAY	FEBRUARY 3769	8.6.Lu.		
Binaru X-rau source 1 F1740 7-2942	GALATIE	MESSIER OBJECT 35	SATURDAY	JUNE 4809			
25 000 l.u.		CAT'S EYE NEBULA	SUNDAY	6) APRIL 5309		<u> </u>	
		KEPLER'S SUPERNOVA	MONDAY (2	NOVEMBER 18 009			
W. L. D.	CALENDAR	BINARY X-RAY SOURCE	FRIDAY	JULY 27 009			
Kepieris Supernova	GALENBAN	CENTER of the GALAXY	FRIDAY	MARCH 28 009			

Stellar corpses

WHEN THEY STOP SHINING, SOME STARS SURVIVE IN SPACE IN THE FORM OF EXOTIC STARS, SOURCES OF POWERFUL GAMMA RAYS

When a giant star explodes at the end of its life, the star's core collapses on itself in a fraction of a second and reaches an extraordinarily high **density**.

Revolving at very high speeds, the small, dense body can then be seen through g a m m a r a y emissions that sweep across the skies at regular intervals,

almostlike a galactic lighthouse.

In some even more extreme cases, the star's core turns into an even more exotic star, called a black hole, which can have a mass that is dozens of times the Sun's mass. The interaction between a **b l a c k h o l e** and its immediate environment may produce intense gamma rays. The matter captured by a black hole forms a disk from which powerful bursts of matter are ejected.

The density achieved when the core of a giant star collapses is unimaginable: several hundreds of millions of tons per cubic centimeter. The star is hen composed of only neutrons, and the neutron star notoses the equivalent of the Sun's mass within a sphere of sus at seve magnetic field – the most powerful magnets in the universe. When a neutron start is in a couple with another star, it sometimes captures its companion's matter as well. The collaps matter is then waroped into a disk-shape before falling on to the neutron start at high speeds. The source baptized '*IELP407.2942'* is the most postret of the Galaxy, at a distance of more than 2,5,00 light-gears. It is a black hole coupled with another star.









