...And from cosmic cataclysms Contributed by Arnaud Marsollier Wednesday, 02 June 2010 Last Updated Sunday, 29 August 2010 Image composite image of Supernova 1006 Credit: NASA/CXC/NRAO/NOAO/AURA Supernovae explosions, pulsars, active galaxies, black holesâ€l The Universe is filled with extremely violent phenomena. They bombard us with particles charged with a colossal energy, accelerated at velocities close to the speed of light. These messengers reveal the intimate mechanisms of real cosmic monsters. First image in November 2004 of a supernova shell in TeV gamma rays by the H.E.S.S telescope in Namibia / credit: H.E.S.S Collaboration / ASCA satellite / ASPERA

In the year 1006 a star appeared in the sky which was visible in daylight, surpassing Venus's brightness at night: it was a supernova, the explosion of a star 7,000 years before, leaving in our sky an expanding sphere of a diameter of 60 light-years which can be seen even today. In 2003, the telescope H.E.S.S made a gamma-ray map of what was left of another supernova, which appeared in Scorpio in the year 393. Such observations have shown that charged particles are

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