

SCIENCE . TECHNOLOGY

# BLACK HOLES: MESSAGES FROM THE EDGE OF THE UNIVERSE

52' (ENG, GER, FRE, SPA)

**It is the birth of the neutrino astronomy. For the first time, astrophysicists can detect extra-terrestrial neutrinos in the ice of the South Pole.**

Neutrinos are the most common and also most mysterious elementary particles and as these particles are invisible to us, their mass is unknown. Also, they are not electrically charged, and rarely interact with other matter. But each of the tiny neutrinos is a potential messenger with information about its origin. Many discoveries in astrophysics have extended our idea of the cosmos, but the core questions of science remain unanswered: how did the universe come to be? What keeps our world together? The extra-galactic neutrinos are keys to answering these questions.

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