## Public lecture Ice Fishing for Neutrinos

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The IceCube project at the South Pole melted eighty-six holes over 1.5 miles deep in the Antarctic icecap to construct an enormous astronomical observatory. The experiment recently discovered a flux of neutrinos reaching us from the cosmos, with energies more than a million times those of neutrinos produced at accelerator laboratories. These cosmic neutrinos are astronomical messengers coming from some of the most violent processes in the universe and from the biggest explosions since the Big Bang. We will discuss the IceCube telescope and highlight the recent discovery that some high-energy neutrinos – and cosmic rays – originate from sources powered by rotating supermassive black holes.

