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Search for physics beyond the Standard Model with IceCube

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The IceCube Neutrino Observatory at the South Pole is the world's largest neutrino telescope, but it can be also considered as one of the largest particle detectors ever built, providing a unique window to physics beyond the Standard Model at energies unreachable in man-made accelerators. It can cover a wide range of neutrino energies, from few GeV to PeVs, and also detect other particles that will emit light when traversing the detector. Its physics program spans from dark matter searches to neutrino oscillations, tests of fundamental laws and searches for monopoles, among others. This talk will cover recent results and future prospects of BSM searches with IceCube.

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