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Particle physics with neutrino telescopes

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Large-scale neutrino telescopes offer interesting possibilities to address particle physics topics ranging from particle searches to neutrino oscillations or tests of fundamental laws. They can even do so at energy ranges not accessible to accelerators, providing a much desired complementarity to accelerator-based physics.

I will review recent results from the existing high-energy neutrino telescopes on searches for dark matter, monopoles, signatures for TeV gravity and extra dimensions, tests of Lorentz invariance and neutrino oscillations, among other topics.

Primary author: DE LOS HEROS, Carlos (Uppsala University)

Presenter: DE LOS HEROS, Carlos (Uppsala University)

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