

# DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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## Neutrino Astrophysics : recent advances and open issues

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Neutrinos of astrophysical origin are messengers produced in stars, in explosive phenomena like core-collapse supernovae, in the accretion disks around black holes, or in the Earth's atmosphere. Their fluxes and spectra encode information on the environments that produce them. Such fluxes are modified in characteristic ways when neutrinos traverse a medium, also depending on key unknown neutrino properties. We will summarize recent advances in this domain, the open questions and their importance for observations.

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**Session Classification:** Parallel 2: Neutrinos mass and mixing, implications for astroparticle physics, dark matter searches