



**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES
Département de physique
nucléaire et corpusculaire

SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET: High-Energy Astrophysical Neutrinos and IceCube

PAR: Dr Chad Finley
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LIEU: Science III, Auditoire 1S081
Boulevard d'Yvoy, 1211 Genève 4

RÉSUMÉ:

The IceCube Neutrino Observatory lies two kilometers deep within the ice at the South Pole, Antarctica. With one cubic kilometer of instrumented volume, IceCube enables the study of a wide range of phenomena: neutrino astronomy, dark matter searches, neutrino oscillations, and cosmic ray physics. Recently IceCube has announced the long-awaited discovery of high energy neutrinos from deep space. The neutrino energies are approximately 100 million times greater than the energies of neutrinos previously observed from the sun and supernovae. I will review IceCube's latest results with particular attention to this new flux. I will also discuss what we hope to observe in the near future with IceCube and the next generation of neutrino telescopes.

INFORMATION : <http://dpnc.unige.ch/seminaire/annonce.html>

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