

Bollettino Settimanale

| Lunedì 8 OTTOBRE 2018 | Martedì 9 OTTOBRE 2018 | Mercoledì 10 OTTOBRE 2018 | Giovedì 11 OTTOBRE 2018 | Venerdì 12 OTTOBRE 2018 |
|-----------------------|------------------------|---|---|-------------------------|
| | | <p>AULA CONVERSI ore 15.00 SEMINARIO DI FISICA STATISTICA</p> <p>Quantized Repetitions of the Cuprate Pseudogap Line</p> <p><i>Vincent Sacksteder (Royal Holloway University of London)</i></p> <p>The cuprate high T_c superconductors exhibit a poorly understood pseudogap transition temperature which persists far above T_c, decreases as the material composition is doped to produce hole charge carriers, and traces a line across the temperature-doping phase diagram. We report a meta-analysis of all measurements of the pseudogap temperature in two prototypical cuprates, which reveals that the best-known pseudogap line is one of a family of four lines. These lines all originate from a single point near one edge of the superconducting phase, and their slopes follow a quantized mathematical pattern.</p> | <p>AULA CONVERSI ore 16.00 SEMINARIO DELL'AMALDI RESEARCH CENTER</p> <p>Atmospheric and Astrophysical Neutrinos with IceCube</p> <p><i>Thomas K. Gaisser (Univ. Delaware)</i></p> <p>There are two main categories of searches for neutrinos of astrophysical origin, point sources and all-sky. Neutrino sources may be identified by a significant excess of events from the same direction and/or by coincidence in time and direction with an event identified electromagnetically or by gravitational waves. All-sky searches are made by looking for an excess of high-energy neutrino-induced muons from below the horizon and also by selecting events that start inside the detector. In all approaches the main backgrounds are atmospheric leptons from cosmic-ray interactions in the atmosphere, but the backgrounds play a different role in each case. In this talk, I will review recent results from IceCube while considering the effects of the atmospheric backgrounds in the different analyses.</p> | |