

Editoria - marzo 2014

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La fisica di tutti i giorni

Traduzione italiana della raccolta di articoli pubblicati nella rubrica "Physics in Daily Life", di Europhysics News (vol 34-42, 2003-2011) a cura di Jo Hermans accompagnati dalle vignette di Wiebke Drenckhan. Il libro svela in maniera divertente i segreti nascosti in fatti del quotidiano.



EPJ Plus – Recent Highlights

Scaling up renewable energy

Can renewable energy adequately supply the power grid, despite its intermittent nature? This is the key question in a new study based on an analysis of concrete data from 2012 for the German national grid, which also utilises electricity from both on and offshore wind and solar sources. Friedrich Wagner from the Max-Planck Institute for Plasma Physics in Greifswald, Germany, outlines the key issues associated with the use of renewable energy on a large scale ...



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Carbon dating uncovers forged Cubist painting

Choosing the right physical technique to analyse paintings can make all the difference when it comes to ascertaining their authenticity. Now, a painting initially attributed as belonging to a series called "Contraste de formes" by French Cubist painter Fernand Léger has definitely been identified as a forgery ...

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La Rivista del Nuovo Cimento

Top quark physics is one of the pillars of fundamental research in the field of high-energy physics. It gives access to precision measurements for constraining the standard model of particles and interactions, but it also represents a privileged domain for new physics searches. The main results in top quark physics obtained with ATLAS and CMS during the first two years of operations of the Large Hadron Collider at CERN are here summarized. First the phenomenology of the top quark at hadron colliders and the experimental setup at the LHC are described, then a review of the measurements performed by exploiting top quark pair and single top production is presented; finally the results are discussed in detail and compared with the expectations from theory. A few examples of searches for new physics signals with signatures involving top quarks are also given.

