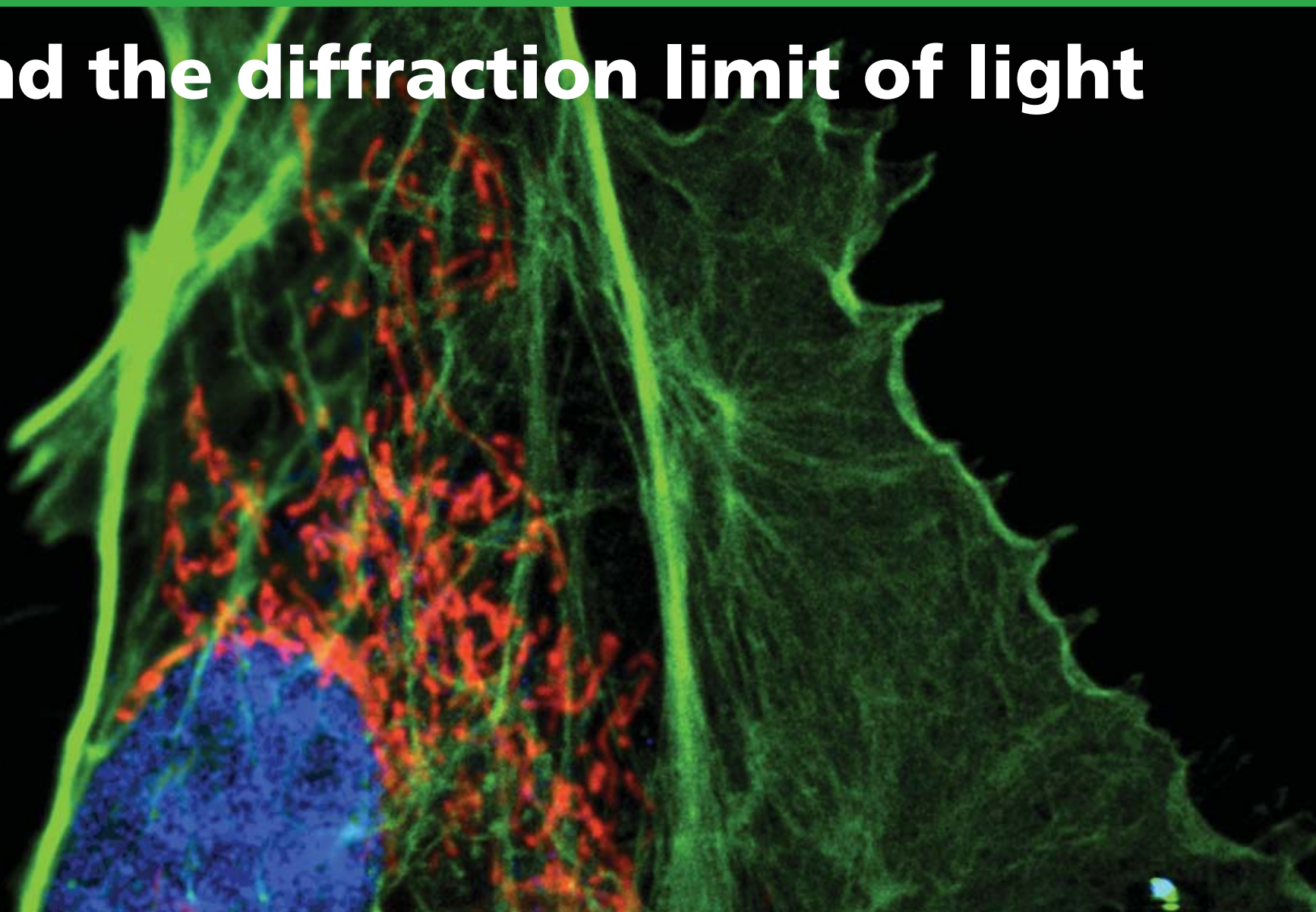




UNIVERSITÀ DEGLI STUDI DI MILANO
SCUOLA DI DOTTORATO IN FISICA
ASTROFISICA E FISICA APPLICATA

Physics Colloquia 2010/2011

Beyond the diffraction limit of light



The Russian painter Vassilij Kandinsky showed increasing experimentation with more structured figurative line forms, like numbers, grids and planes, to both unify and direct the visual action within the image field of the painting. Similarly, today's scientists are exploiting microscopy with revolutionary creativity, introducing us to a new Era within the image field of microscopic bioimaging. This inspires our discussion about photonic investigations.

Microscopy is an essential tool for analysis of cellular structures and function, and the advent of new fluorescent probes and super-resolution light microscopy techniques greatly facilitated the study of dynamic processes in living cells: the race for resolution improvement is running with different approaches.

Starting from three-dimensional optical fluorescence microscopy we will address advanced methods and related applications: from confocal microscopy to single molecule detection, from multiphoton imaging to far-field optical nanoscopy.

We will discuss about how new technology approaches in microscopy open to us a fundamental window on the complicated and delicate relationships at the basis of cell functioning.

MAR

01.03.2011

Alberto Diaspro

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Beyond the diffraction limit of light

Gli incontri si terranno alle **ore 15:00**
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