



EINLADUNG  
zum  
VERA - SEMINAR  
von

**Claudio Tuniz**

The 'Abdus Salam' International Centre for Theoretical Physics, Trieste, Italy  
Centre for Archaeological Science, University of Wollongong, Australia

**The science of human origins**

Hard sciences have recently intensified their incursions in territories covering human-origin studies. Synchrotron radiation microtomography can reveal with great detail and non-invasively the inner structure of fossil remains from archaic humans and proto-humans, including their brain case, hyoid, labyrinth and other bones that are crucial for human evolution studies. The entire genomes of extinct human species can be sequenced and compared with the genome of *H. sapiens*. Radionuclide dating of fossil remains can provide a precise timescale for human evolution and dispersals allowing its synchronization with chronologies based on DNA mutation and climatic changes in the past. I will present the applications of some instruments and methods in palaeo-anthropology, showing examples from our recent research [1].

1. The Science of Human Origins, C. Tuniz, G. Manzi and D. Caramelli, Left Coast Press, USA, 2014

**Donnerstag, 15. Mai 2014, 16:30 Uhr**

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",  
1. Stock, Victor-Franz-Hörsaal**