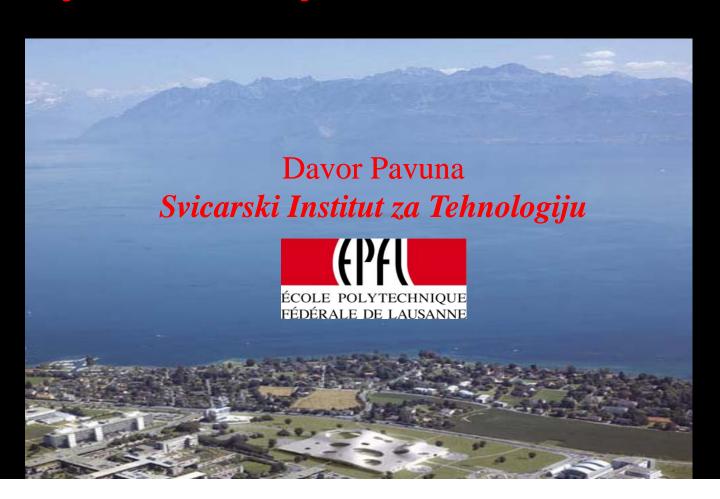


Bolja Civilizacija. Mreza Znalaca i FER

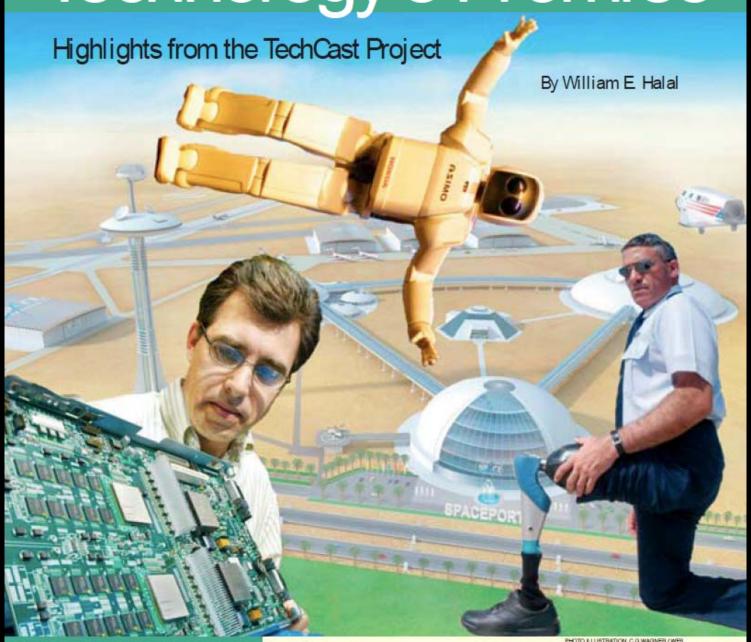


Physis = Moja Znanost

Izazovi Tehnologije

Hrvatski Izazovi

Technology's Promise



Introductory Superconductivity Textbook (1992):

Cyrot Pavuna INTRODUCTION TO
SUPERCONDUCTIVITY AND HIGH-T, MATERIALS

1

Michel Cyrot Davor Pavuna

About the Book

"... an introductory text, with a unified, balanced point of view, is of considerable value. This is what Cyrot and Pavuna have produced. Their book still requires a significant effort for a genuine beginner, but it can be studied step by step. It sets up delicate compromises between the opposite dangers of dogmatism and oversimplification."

from the foreword by **P G de Gennes**

INTRODUCTION TO SUPERCONDUCTIVITY AND HIGH-T_C MATERIALS

What sets this book apart from others on the introduction to superconductivity and high- T_c materials is its simple and pragmatic approach. The authors describe all relevant superconducting phenomena and rely on the macroscopic Ginzburg-Landau theory to derive the most important results. Examples are chosen from selected conventional superconductors like Nb-Ti and compared to those of high- T_c materials. The text should be of interest to students and researchers in all branches of science and engineering, with the possible exception of theoretical physicists, who may require a more mathematical approach.

World Scientific



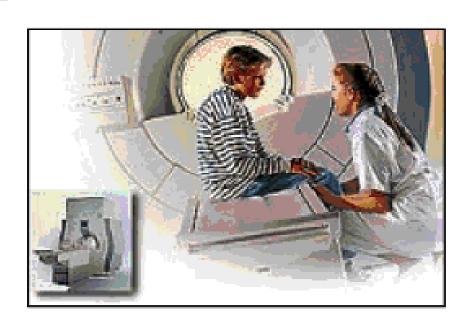
The Yamanashi MLX01 MagLev train.

Uses for Superconductors

Magnetic-levitation is an application where superconductors perform extremely well. Transport vehicles such as trains can be made to "float" on strong superconducting magnets, virtually eliminating friction between the train and its tracks. Not only would conventional electromagnets waste much of the electrical energy as heat, they would have to be physically much larger than superconducting magnets. A landmark for the commercial use of MAGLEV technology occurred in 1990 when it gained the status of a nationally-funded project in Japan. The Minister of Transport authorized construction of the Yamanashi Maglev Test Line which opened on April 3, 1997. In December 2003, the MLX01 test vehicle (shown above) attained an incredible speed of 361 mph (581 kph).



MRI & "Big Physics"





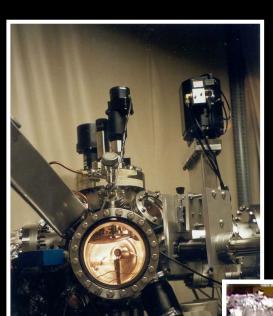


Tevatron Fermi National Laboratory



P. M. Grant

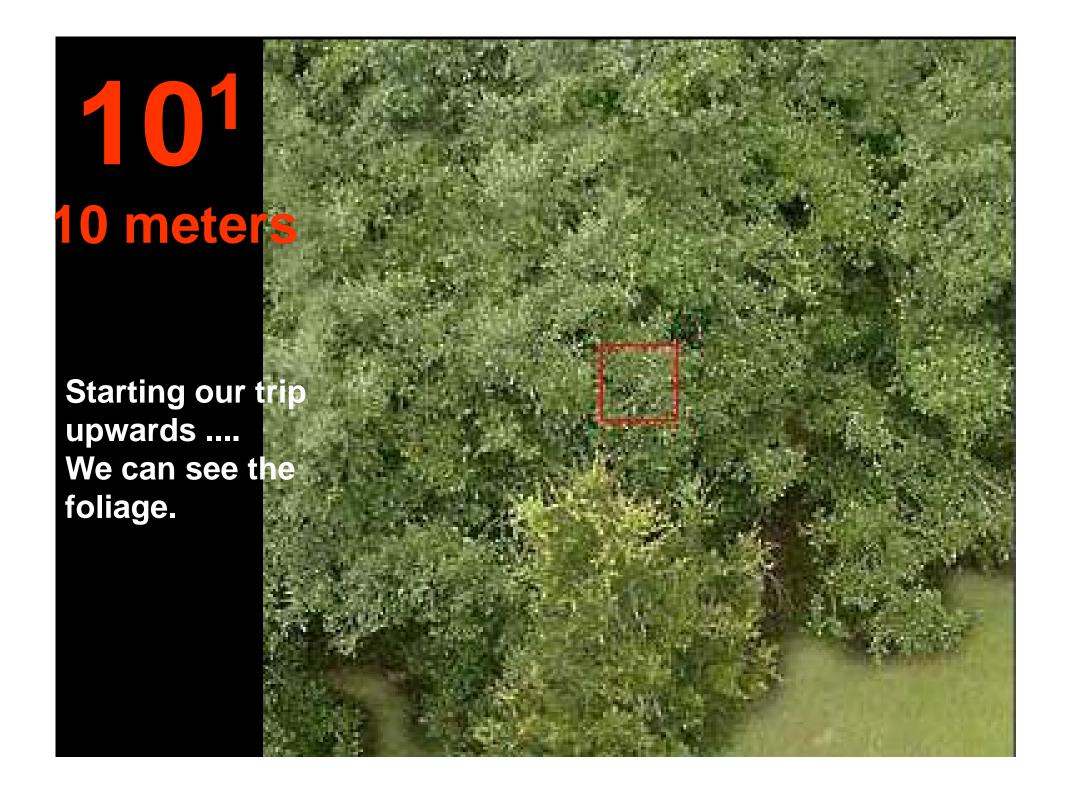
In Wisconsin, USA (1995 -):





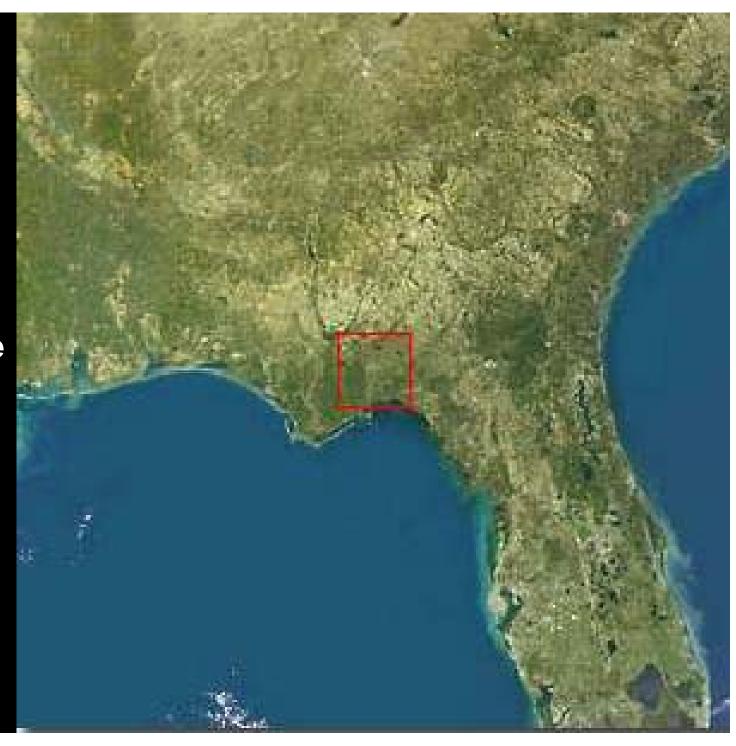






106 1,000 km

Typical sight from a satellite



107 10,000 km

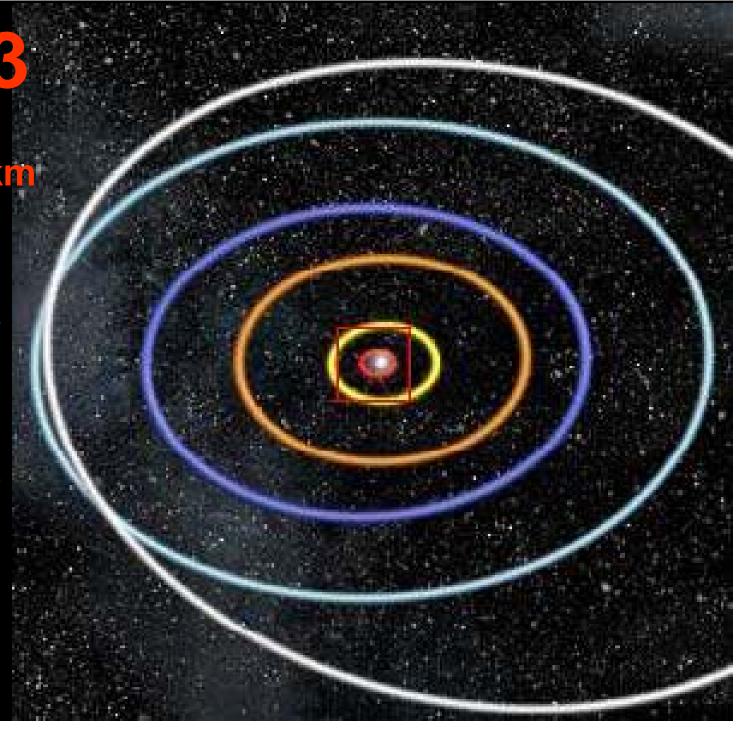
The northern hemisphere of Earth, and part of South America

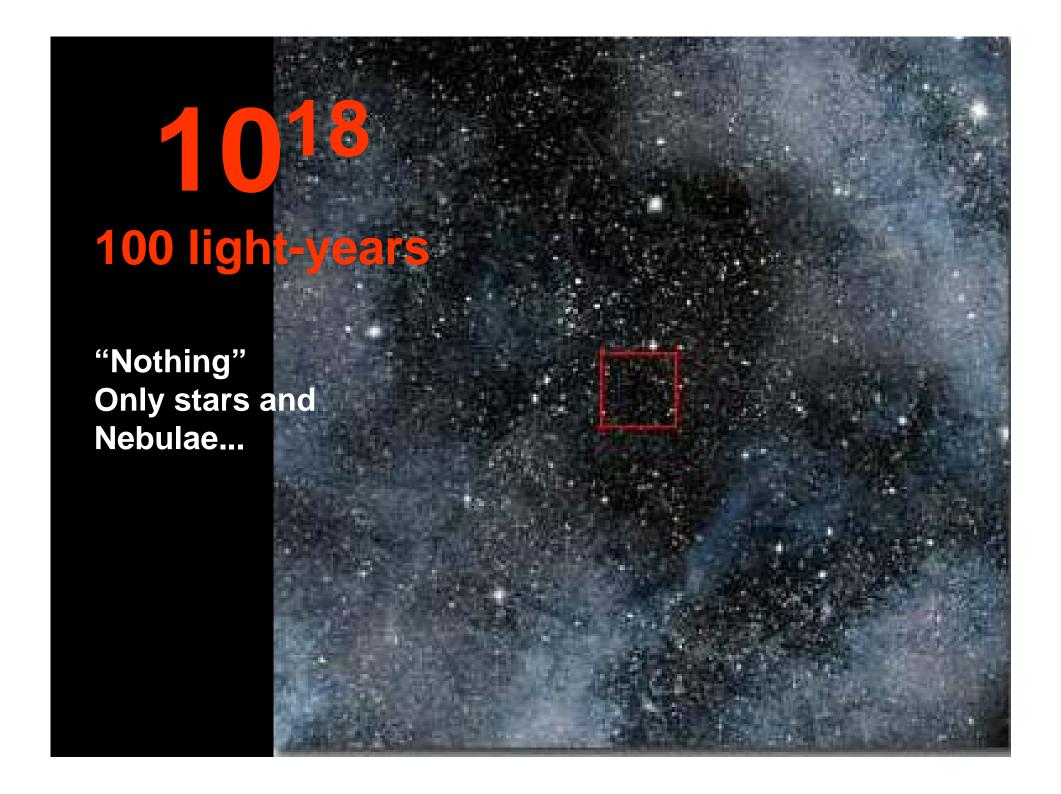


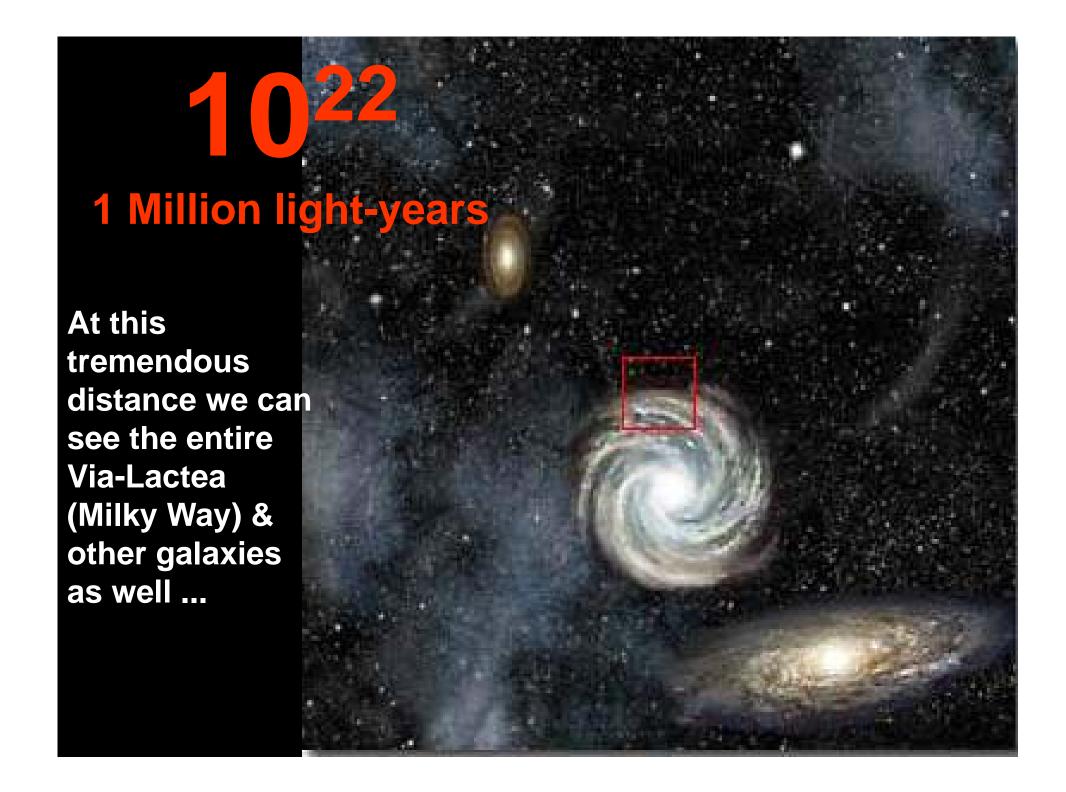
1013

10 Billion km

At this height of our trip, we could observe the Solar System and the orbits of the planets

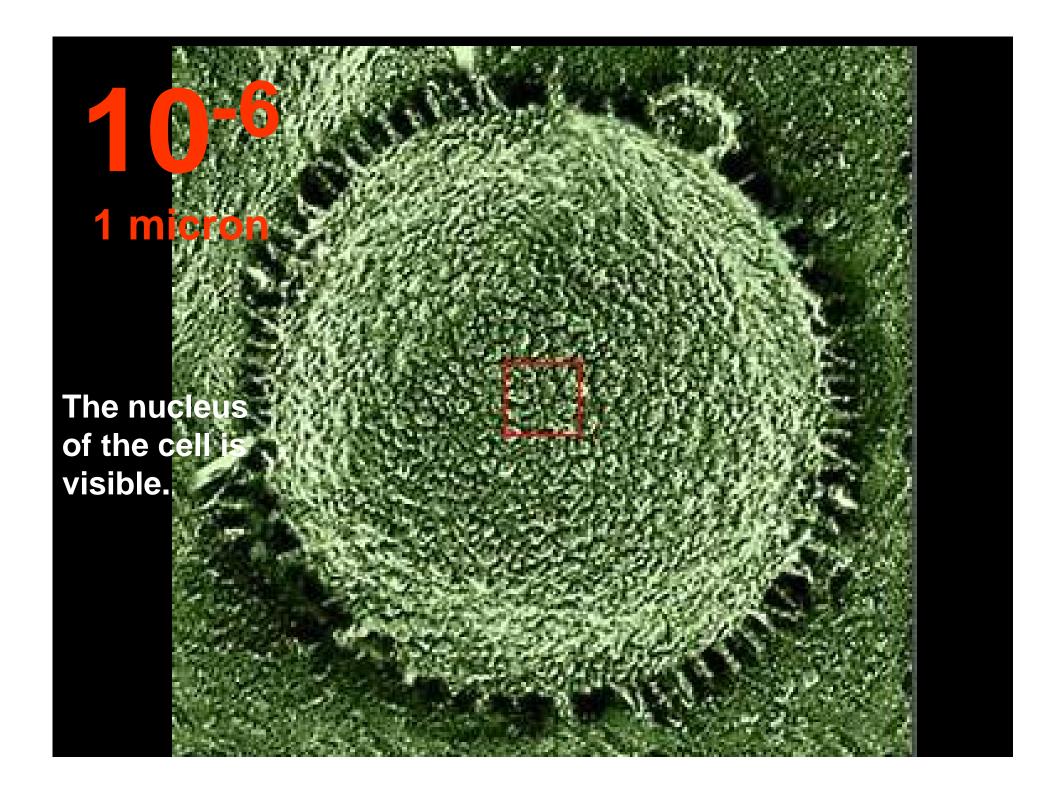


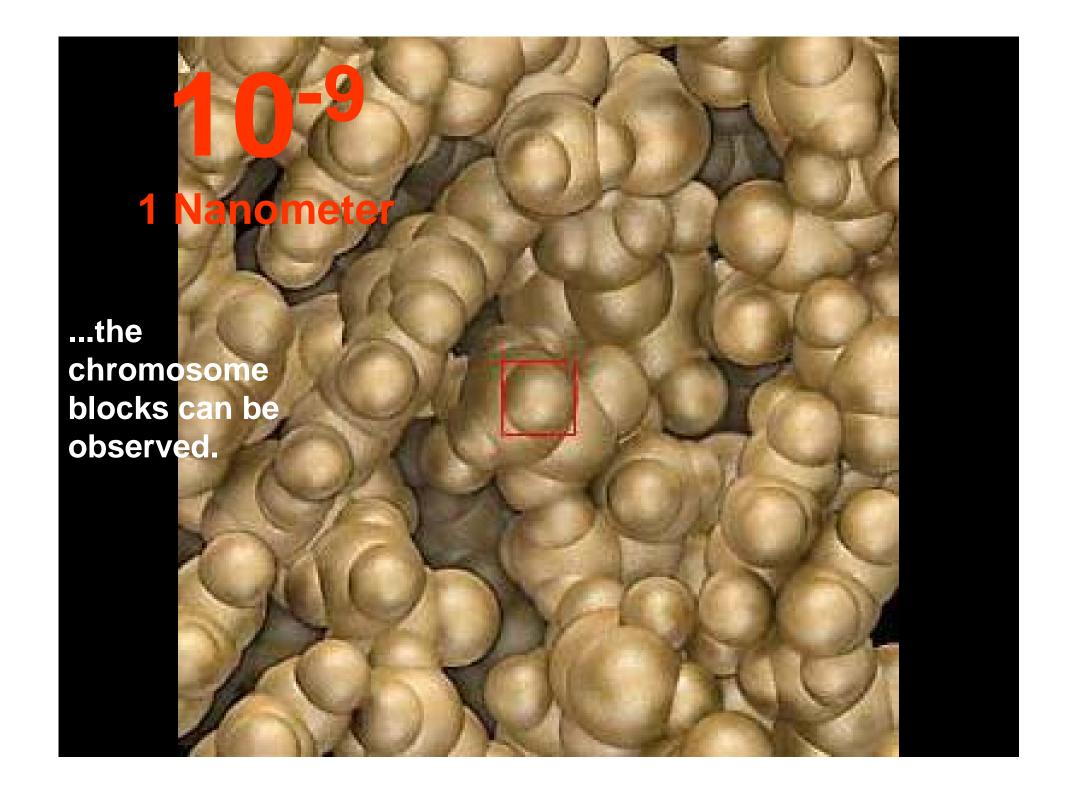


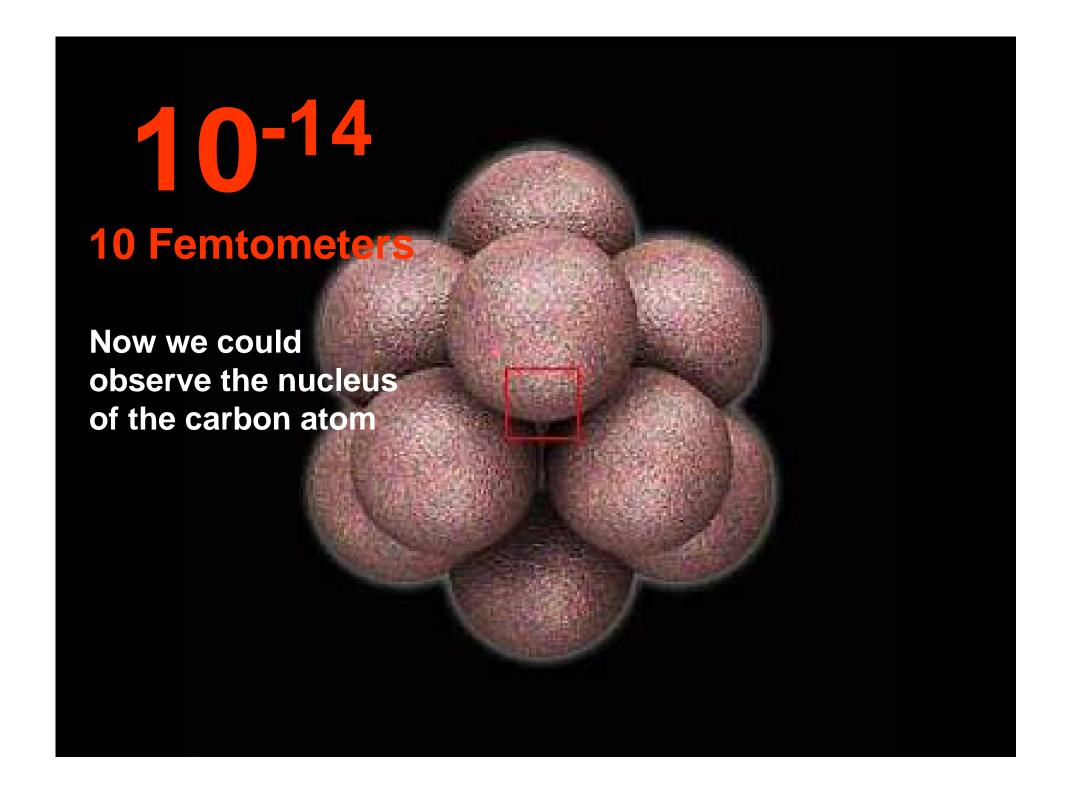


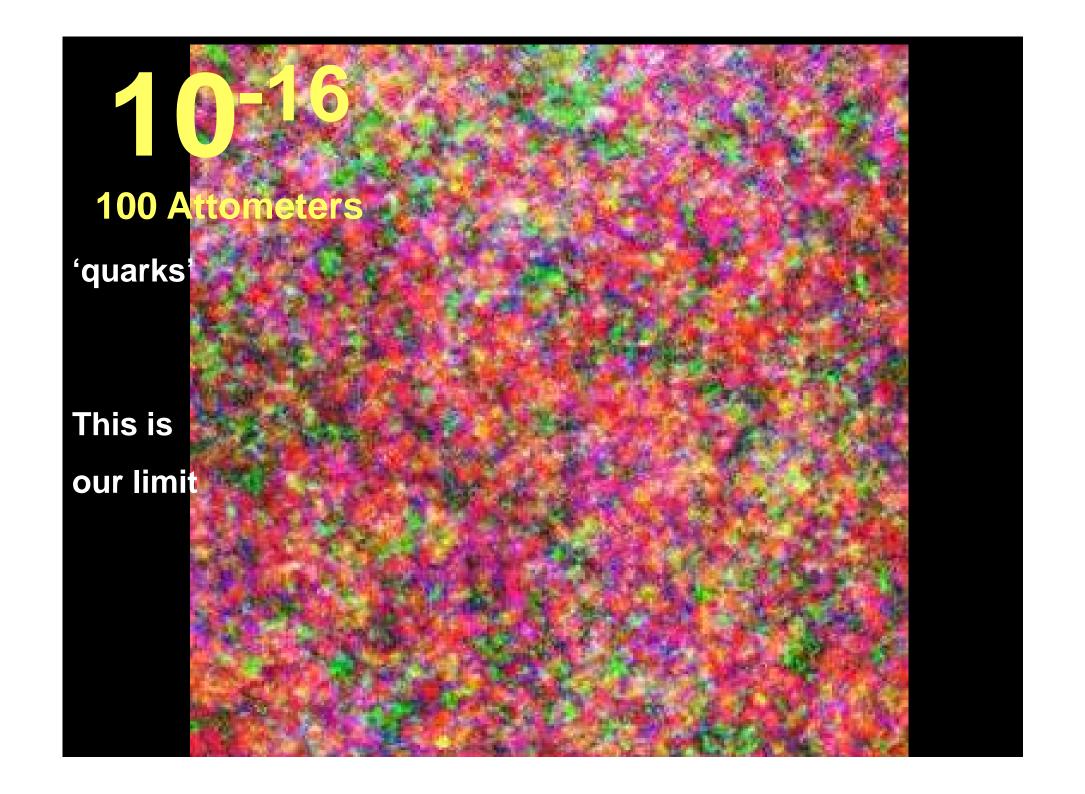












Savrsen Univerzuum:

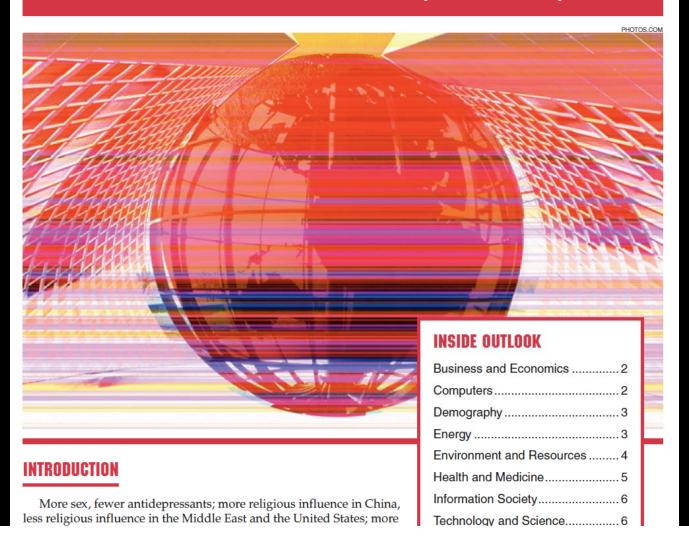
Zakon & Energija

Sto Izabiremo?

#FUTURIST

OUTLOOK 2009

Recent Forecasts from World Future Society for 2009 and Beyond



Kakvu Civilizaciju?

Beijing imposes car ban to ease traffic jams

(Xinhua)

Updated: 2008-09-28 16:37





Plastične vrećice razgrađuju se na svjetlosti: polako se raspadaju u manje, otrovnije petropolimere



CNN.com/technology, 16. prosinca 2007.

koji polako truju tlo i vodu.



CNN.com/technology, 16.prosinca 2007.

Posljedica: mikroskopske otrovne čestice ulaze u hranidbeni lanac.



CNN.com/technology, 16.prosinca

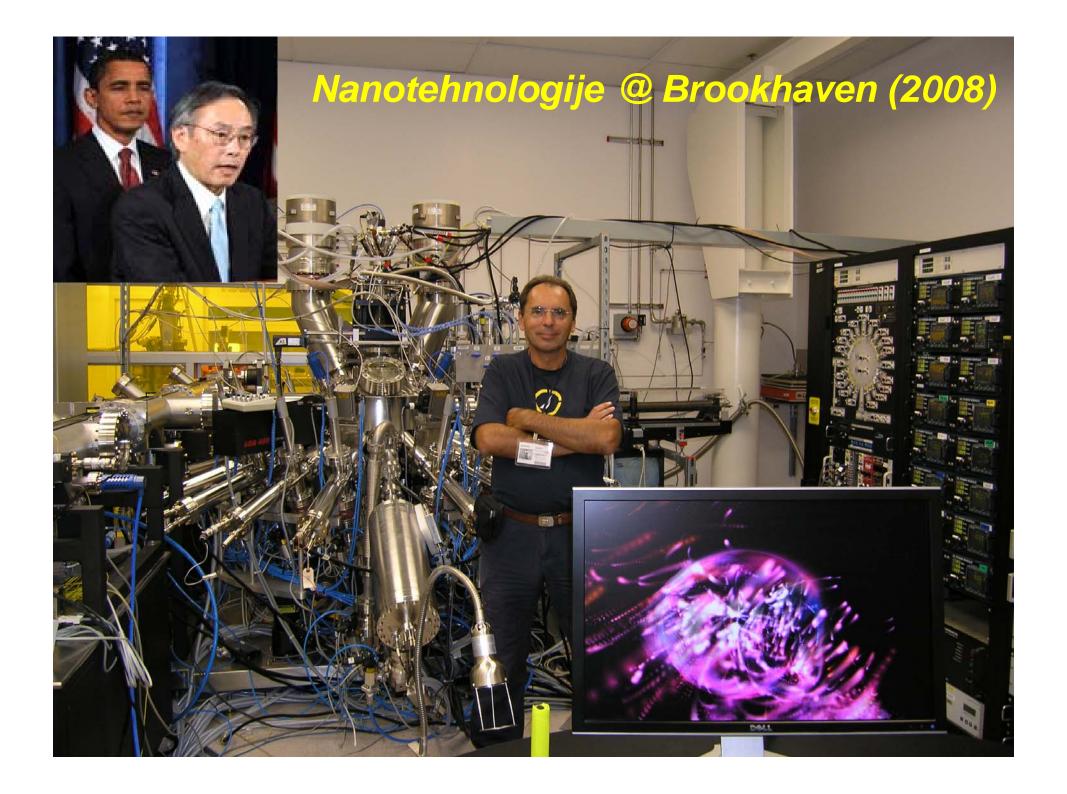
108 100,000 km

The Earth starts looking small...





Koja Energetika?



Solar Energy in the Sahara to Power Europe Gains Support

by Matthew McDermott, New York, NY

on 07.22.08

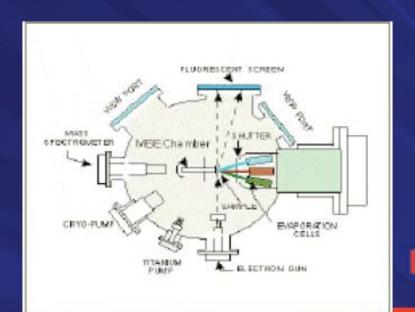




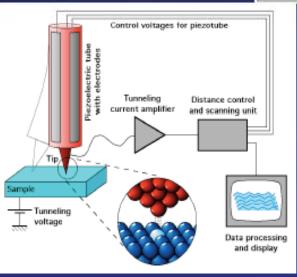
Kakva nanotehnologija - Kakva racunala?



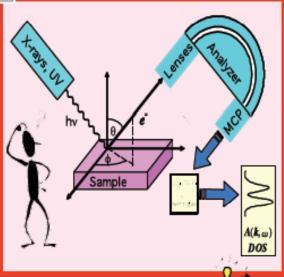
Our Future Set-Up:



STM



MBE



Bio-Medicina?

First Announcement

International Conference and BioPhysics Summer School

FromSolidStateToBioPhysicsIV

Hotel Croatia, Cavtat, Dubrovnik, Croatia

6-13 June 2008.

Sponsored by: Croatian Ministry of Science and Technology The European Office of Aerospace Research & Development (EOARD)

Organization (co-)supported by:

Ruder Bošković Institute, Zagreb, Croatia École Polytéchnique Fédérale de Lausanne, Switzerland Faculty of Science, Zagreb, Croatia Institute of Physics, Zagreb, Croatia University of Dubrovnik, Croatia Splitsko Sveučilište. Croatia International Institute for Complex Adaptable Matter













Deadlines

Abstracts Registration 1st May 2008

László Forró and DavorPavuna École Polytéchnique Fédérale de Lausanne (EPFL) Switzerland

Conference Scientific Coordinator: SvIvia Jenev. EPFL

D. Andelman (Israel) N. W. Ashcroft (USA) N. Ban (Switzerland) S. Barišić (Croatia) A. Bishop (USA) I. Božović (USA) C.W. Paul Chu (USA & China) Marvin L. Cohen (USA) I. Đikić (Germany) A. Fersht (U.K.) H.K. Flyvbjerg (Denmark) I. Giaever (USA) A. Heeger (USA) A. Jánossy (Hungary) K. Kern (Germany) R. Laughlin (USA) P.A. Lindgard (Denmark)

S. Marčelja (Croatia) W. Ansorge (Switzerland) G. Margaritondo (Świtzerland) M. Milun (Croatia) K.A. Müller (Switzerland) Y.W. Park (S.Korea) J. Peter-Katalinić (Germany) J.C. Phillips (USA) D. Pines (USA) R. Podgornik (Slovenia) J. Prost (France) M. Radman (France) T. Rizzo (Switzerland) E. Sackmann (Germany) M. Thorpe (USA) Y. Tokura (Japan) F. Vidal (Spain) M.K. Wu (Taiwan) M. Žinić (Croatia)

Maticne stanice

Website

A sto izabiru - Mladi?

Izbor Buducnosti (Mladih):

Ljubav
Zajednistvo
Komunikacija
Nezagadjenost!

Hrvatska?

1'300'000 kvazi-zaposlenih!!!

Moja NOVA Hrvatska:

3% Umrezenih Znalaca u CISTOJ Hrvatskoj:

□≈ 100'000 umrezenih u ekonomiji znanja

Google: 20'000 zaposlenih Profit do \$1'000'000 po zaposlenom

HR programeri mogu ostvariti
BOLJE SOFTWARE KREACIJE!!!

Supra-ekonomija Znalaca je Moguca!

Nikola Tesla Hon. Ph.D. Zagreb University (1926)



The unit for magnetic induction tesla (T)



Bolje Sutra:

Iskrenost i Cestitost

Izvrsnost i Strucnost

Fluidna Komunikacija





Buducnost:

Mi = Pobjednici