

# **MENJADI MAHASISWA FISIKA YANG SUKSES**

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Disampaikan pada:  
OSPEK FMIPA UNY 2008  
26 Agustus 2008

## **KUNCI MENUJU SUKSES**

- Motivasi
- Kerja Keras
- Kenali Rute Anda

# **MOTIVASI**

**MOTIVASI :**

**Mengapa Anda memilih  
FISIKA?**

**MOTIVASI :**

**Kenali FISIKA & Jadikan  
FISIKA Menarik Bagi Anda!  
(Tak Kenal Maka Tak Sayang)**

**MOTIVASI : KENALI FISIKA**

**Apa Itu FISIKA?**

# MOTIVASI : KENALI FISIKA

## Pengetahuan Dasar FISIKA:

- Mekanika Klasik
- Elektromagnetisme (+Optika)
- Termodinamika + Mekanika Statistik
- Relativitas
- Mekanika Kuantum

# MOTIVASI : KENALI FISIKA

## Metode Riset Dalam FISIKA:

- Teori (Analitik)
- Komputasi (Simulasi)
- Eksperimen

# MOTIVASI : KENALI FISIKA

## Topik Riset FISIKA Terkini:

- Condensed Matter Physics (CMP)
- Atomic, Molecular & Optical (AMO) Physics
- High Energy Physics (HEP)
- Nuclear Physics
- Astrophysics
- Applied Physics

# MOTIVASI : KENALI FISIKA

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### LATEST ISSUE

Physics World  
Volume 21 No 8  
August 2008

Table of contents

### HEADLINE NEWS

Spinning electrons make for an unconventional metal Aug 20, 2008 1 comment  
Simple exception to Landau-Fermi liquid could provide new route to spintronics

Entanglement remains a mystery Aug 13, 2008 32 comments  
Swiss experiment implies information would have to travel thousands of times faster than light to explain quantum entanglement

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#### Antimatter Bounces Off Matter

11 August 2008  
A large fraction of an antimatter beam can reflect off of a wall made of normal matter instead of annihilating. The surprising effect turns out to follow from standard, textbook physics.  
PRA (August 2008)

#### Diamonds Aren't Forever

1 August 2008  
A flash of laser light briefly excites electrons in graphite into a bonding state similar to diamond. Making the conversion complete could lead to new types of nanoscale circuits.  
PRL (to be published)

#### Nuclear Chemistry

25 July 2008  
Theorists predict that collisions can briefly create a beryllium nucleus in which neutrons bind two clumps of particles together the way electrons bind atoms into a molecule—in three very different configurations.

### Physics News Update

American Institute of Physics news items that describe research from APS journals:

- On Very Thin Ice
- PRL (May 2008)
- New Form Of Artificial Radioactivity
- PRL (16 May 2008)

More from the PRL Index.

### Milestones: Important Papers from 50 Years of PRL

In celebration of Physical Review Letters 50th anniversary, the journal is posting short descriptions of important historical papers and adding new ones every week of 2008.

### DIGITAL EDITION

AUGUST ISSUE NOW AVAILABLE Members of the Institute of Physics can access a full digital version of Physics World magazine. Simply login here and follow the physics World link.

### KEY SUPPLIERS

# **MOTIVASI**

Jadikan MOTIVASI Sebagai  
Bahan Bakar Bagi ANDA Untuk  
Terus Melangkah!

**KERJA KERAS**

**KERJA KERAS**

**Practice Make Perfect!**

**KERJA KERAS**

**Never Trust Your Class Notes!**

**KERJA KERAS**

**No Plagiarism!**

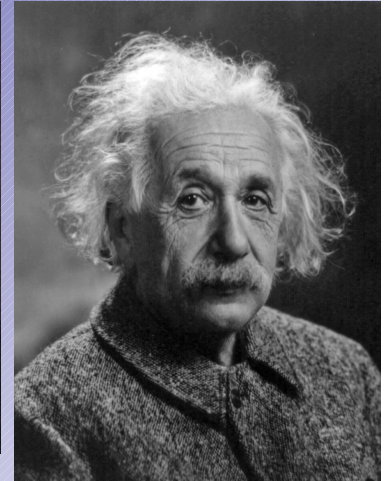
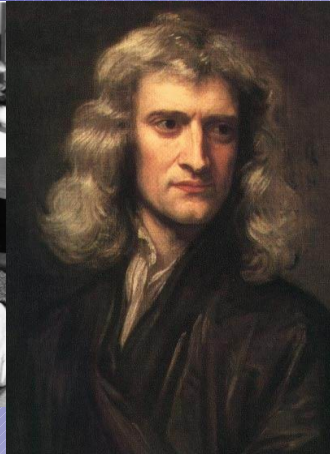
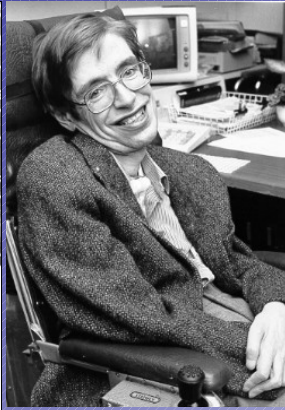
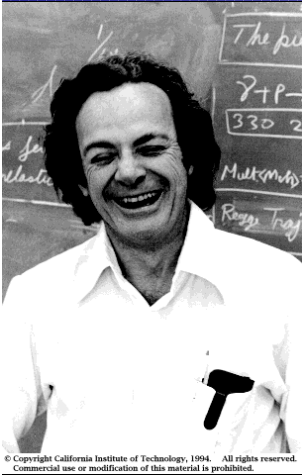
**KERJA KERAS**

**Enjoy The Process,  
Not The Result!**



# KERJA KERAS

## Learn From The Greats!



# KERJA KERAS

## No Pain No Gain!

# KENALI RUTE ANDA

## GET THE BIG PICTURE!

<b>Tahun 4 :</b>	<b>Condensed_Matter</b>	<b>Astrofisika</b>	<b>HEP+Nuklir</b>
	<b>AMO</b>		<b>Fisika_Terapan</b>
<b>Tahun 3 :</b>	<b>Zat_Padat</b>	<b>Atom</b>	<b>Inti_(Nuclear)</b>
<b>Tahun 2 :</b>	<b>Relativitas</b>	<b>Elektromagnetisme+Optika</b>	<b>Mekanika_Kuantum</b>
	<b>Mekanika+Gelombang</b>	<b>Termodinamika+Mekanika_Statistik</b>	
<b>Tahun 1 :</b>	<b>Komputasi_Fisika</b>	<b>Matematika_Fisika</b>	<b>Fisika_Dasar</b>
	<b>Kalkulus</b>	<b>Metode_Eksperimen</b>	

**Ganbatte Kudasai !**