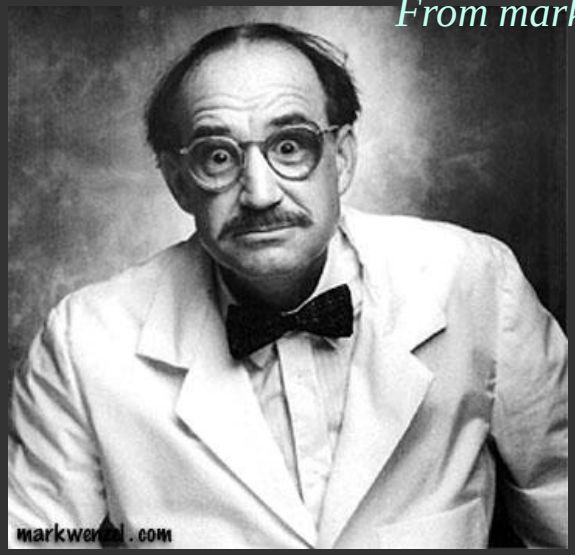
Welcome to Physics 102

This class is a survey of our universe as seen by modern science and an exploration of concepts of a multiple universe reality. Physics 102 is designed for non-science majors. The course is conceptual and the use of mathematics will be limited.

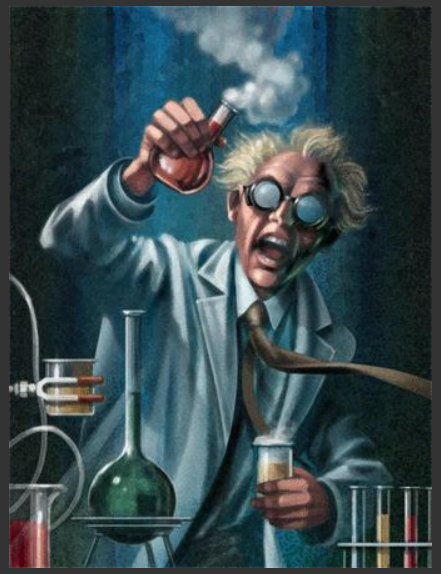
- motion
- Work
- Energy
- Gravitation
- Conservation of momentum and energy
- Constant acceleration motion
- Rotational motion
- Waves
- light
- electricity and magnetism
- nuclear forces
- Standard Model of particle physics
- The Big Bang
- Dark matter
- stellar evolution
- Special Theory of Relativity
- General Theory of Relativity
- Quarks, leptons, gluons, baryons, mesons, etc.
- cosmic microwave background
- quantum mechanics
- Heisenberg's Uncertainty Principle
- radiation
- nuclear bombs
- at least 12 different multiple universe concepts

No previous physics instruction is assumed.

From markwenzel.com

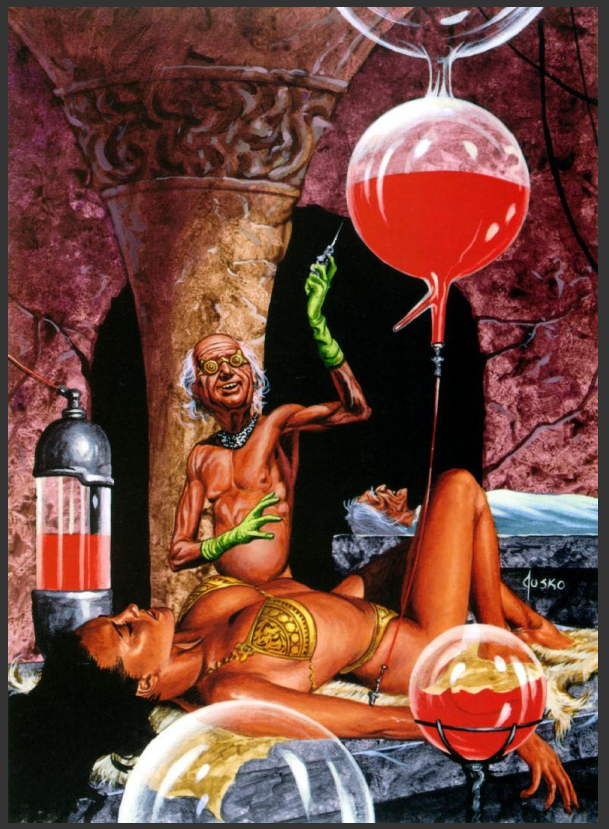


The nature of science



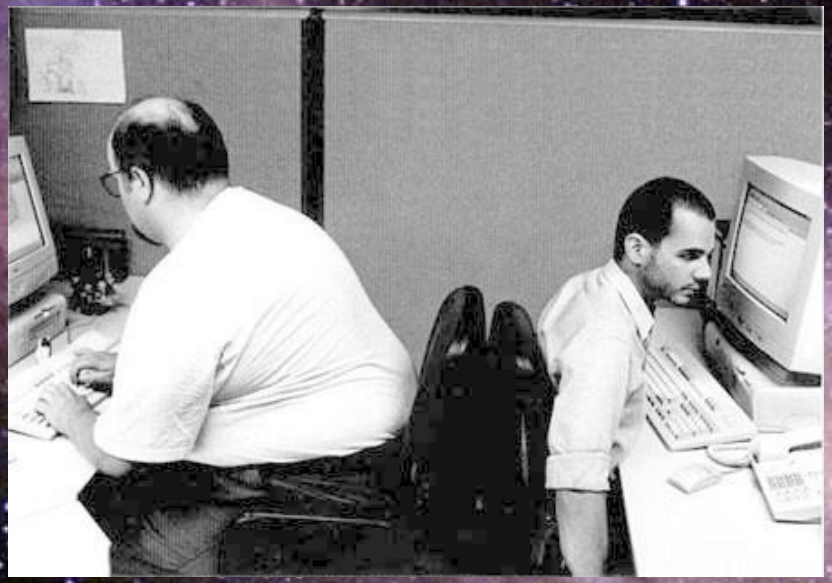
From cientifica.eu

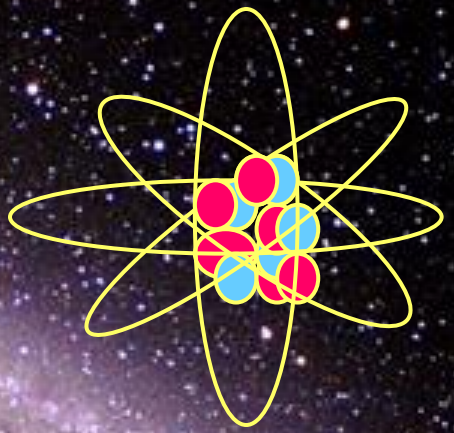
From www.robertocampus.com



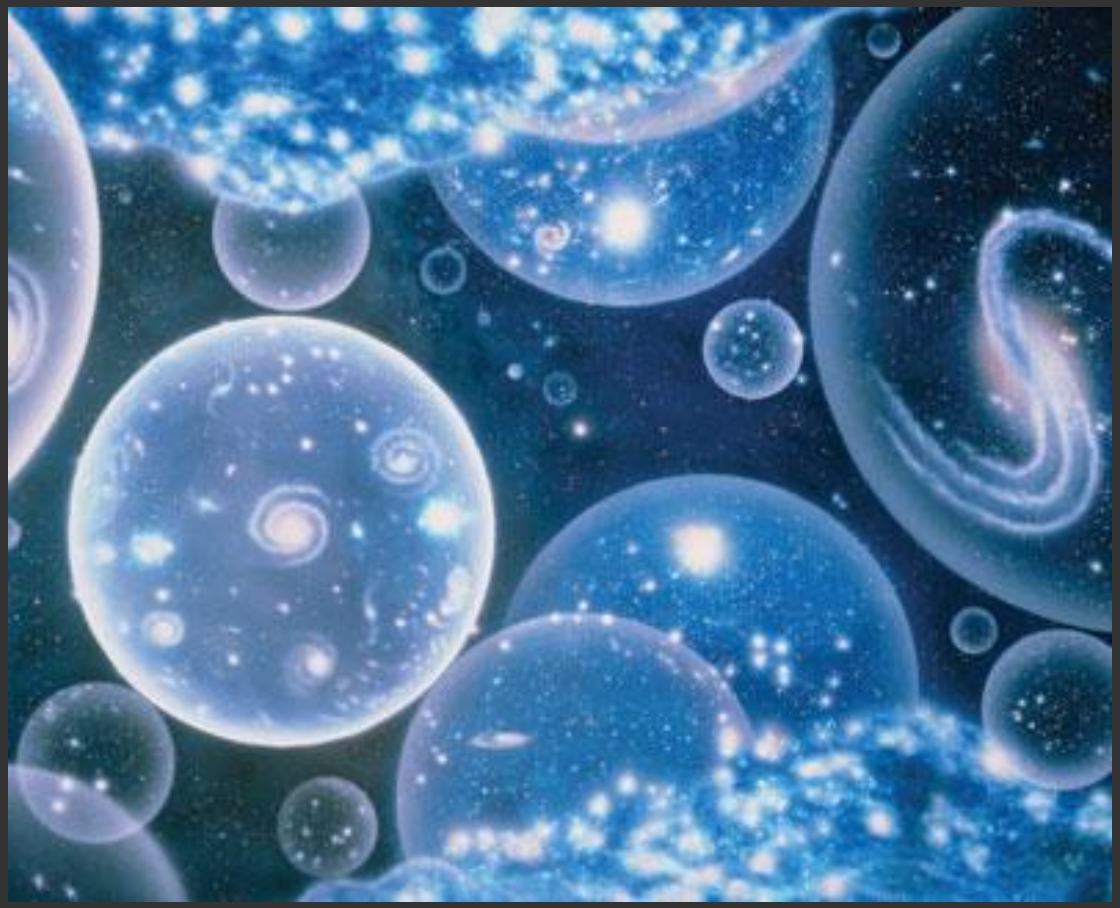
From theduogroup.com

Confronting Human bias





The intimate relationship between the very big and the very small



J. Baum/SPL, from nature .com

Concepts of the a multiple universe reality

Evaluation:

Scheme	Exam 1	Exam 2	Final exam	Reports	Prob. sets	Recitation
1	---	22%	30%	20%	14%	14%
2	22%	---	30%	20%	14%	14%
3	16%	16%	20%	20%	14%	14%

Each scheme calculated, best average sets your place on the numerical curve

I place grade boundaries on numerical curve

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http://web.pas.rochester.edu/~manly/class/P102_2009F/

Name

email address you use for university business

Year: Fr/So/Jr/Sr?

Did you receive the email I sent yesterday from BlackBoard? Yes/No/did not check email since last night

Major/main career interest

Why you are in this course