

PHY 101 EMERGENCE IN NATURE

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"PHYSICS" - what's it about?

- geology
- astronomy
- physics
- ROCKS (geophysics)
- star (astrophysics)
- book by aristotle

- physics is about everything from a certain point of view.

biological physics

econo physics

physics is normally REDUCTIONISTIC

- study the PARTS

- the unreasonable effectiveness of mathematics

- totalistic —

Murray Gell-Mann — quarks model

"all that is not forbidden
IS MANDATORY"

EMERGENCE

→ work backward from
reductionism