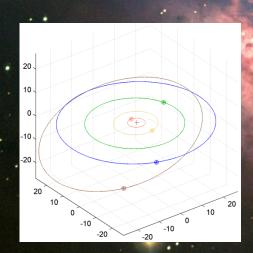
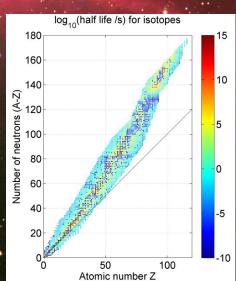


Ine Universe

ov Numbers



Dr Andrew French July 2016

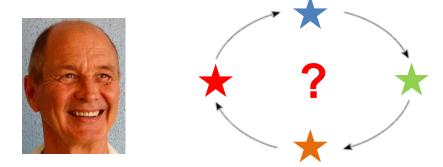


- How to get the most out of this (and perhaps any) course
- Course contents
 - Day 1 What is Science? How do we *quantify* the Universe?
 - Day 2 What is the Universe made of? How do its constituent parts interact?
 - Day 3 Energy and Heat
 - Day 4 Mechanics and Machines
 - Day 5 Sound, Light and other Waves
- Further resources at <u>www.eclecticon.info</u>



How to get the most out of this (and perhaps any) course

David Kolb pointed out that Learning is a *cyclical* process

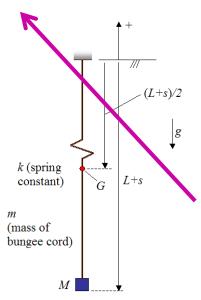


The more times you complete the cycle, the better you will know something!



Activist * Having an experience

Pragmatist
Planning the
next steps



v = 0

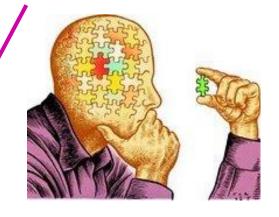


David A. Kolb (1939-)

Theorist ★
Concluding from
the experience



Reflector ★
Reviewing the
experience



Honey & Mumford's (1982) interpretation of Kolb's *Learning Styles*



Have an experience

We'll **introduce** an idea via:

- Presentations (like this one)
- Discussions
- Calculations
- Experiments
- Games ...



You need to take **really good notes** so you can **reflect** upon what you have
experienced



★ Planning the next steps

You may have many questions!

You will become more adept after this course, but the learning of Science has only just begun...



"I wrote everything down"



With **review** and **practice**, hopefully many ideas will start to consolidate in your mind

Concluding from the experience