Science and Hindu Religion

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Lederman and Democrites

• Just don’t interrupt me with tedious musings about parallels between physics and Hinduism - Democritus

• God Particle page 34
What is Religion?

• The word Religion is made up of two words
• re-back
• Ligate-to bind
• Reconnect what to what?
• That we left behind or lost by being born.
• Which is the supreme power also part of all living/non living materials and energy.
Comparison of Religions
Eastern and Western

• Way of life
• Open ended
• What is said, heard and practiced
• Personal preference and decision

• Organized
• Structured
• What is written in the book
• Do’s and don’ts set by hierarchy
What is God?

• A zillion dollar question!
• Conceptual model!
• Supreme power(?)
• Combination of four fundamental forces? Plus something more.. (Capra)
## I Comparison of Principles

### Hindu

- God *(Ishwar)* exists everywhere, in everything. *(Meaning of ‘Vishnu’- the one that has entered even an atom) Vish= to enter, anu = atom. God also doesn’t have definite size, shape, material properties. *(Is Nirgun, Nirakar)*

### Science

- God may be defined as the combination of four fundamental forces - gravitational, electromagnetic, strong and weak which exist even in an atom and plus something more.
II Comparison of Principles

<table>
<thead>
<tr>
<th>Hindu</th>
<th>Science</th>
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</thead>
<tbody>
<tr>
<td>Trinity-</td>
<td>Brahma, the creator, Vishnu, the protector and Shiva, the destroyer- are</td>
</tr>
<tr>
<td><strong>Brahma</strong> (creator),</td>
<td>three separate forms of four fundamental forces combined together plus</td>
</tr>
<tr>
<td><strong>Vishnu</strong> (protector)</td>
<td>something more.</td>
</tr>
<tr>
<td><strong>Mahesh</strong> (Shiva-</td>
<td></td>
</tr>
<tr>
<td>destroyer) controls</td>
<td></td>
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<tr>
<td>the operation of</td>
<td></td>
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<tr>
<td>universe.</td>
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</table>
III Comparison of Principles

**Hindu**

- Nothing is permanent. Everything (Maya) is destructible (*Nashwar*). Maya is manifestation of *Brahman* (Supreme power).

**Science**

- Material and energy form go back and forth into each other. Material form ‘Maya’ is the manifestation of energy and is destructible.
# IV Comparison of Principles

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<tr>
<td><strong>Ultimate goal of living thing (animal kingdom-human being) is to escape the cycle of birth and death to achieve ‘Moaksha’ – to reunite with supreme power. (Geeta)</strong></td>
<td><strong>Achieving Moaksha is escaping from material form permanently into energy form.</strong></td>
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</tbody>
</table>
Comparison of Principles

Hindu

• To achieve ‘Moaksha’ one has to conquer six enemies: anger, greed, lust, pride, jealousy and sorrow, which may be achieved by meditation. One needs to become ‘detached’ from life (Sthitapradnya) like a leaf of lotus, which may be accomplished by meditation. (Geeta)

Science

• Conquering six enemies is rearranging forces in your body-mind to tune into the natural form of four fundamental forces plus more. Basically controlling the chemical balance in your brain. Because every emotion e.g. anger, sorrow, jealousy etc. has its own chemical formula as proven by neurobiologists.
VI Comparison of Principles

Hindu  Science

• Four *Yogas* (way of life): *Jnyan* yoga, *Dhyan* yoga, *Bhakti* yoga, *Karma* yoga, are four paths to reach God or achieve *Moaksha*.

• *Raaj* yoga is while pleasing all five senses, keeping desire out of it.

• Four *Yogas* are four ways one can achieve the chemical balance. (*Jnyan* yoga) Logical-using brain, (*Bhakti* yoga) emotional using heart, *Dhyan* yoga psychological-using mind, (*Karma* yoga) physical practices-duty, service, rituals etc.
VII Comparison of Principles

**Hindu**

- One can not change destiny: Prayers/rituals will only prepare you to face the reality. They may also provide the way to connect to the supreme being.

**Science**

- Entropy-disorder from order is inevitable. You may find it decreased locally on microscopic level but on macroscopic level it is always increasing.
### VIII Comparison of Principles

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| Good and bad are two sides of the same coin; one cannot eliminate bad completely. (Similar to yin-yang in Chinese culture) | Science and technology are not at fault. It is the responsibility of whoever is using it to use it for goodness of humanity.  

E.g. Nuclear power or stem cell research has good and bad sides. |
IX Comparison of Principles

Hindu

* ‘Swadharma’ (as described by Saint Dnyaneshwar) or personal duty can be a combination of four Yogas. Through practicing Swadharma one may seek Universal Unity. (Vishwa Bandhutwa)

Science

• For any common person it is the combination of all four paths at any time, means using brain, heart, mind, and body.
X Comparison of Principles

Hindu

- Duty is the essence of Hindu religion.

Science

- Motion is vital for existence.
• People do criticize and ask about caste system, vegetarianism, and worshiping idols of gods.
• Caste system is just a social structure for better functioning of society.
• Vegetarian diet came in to picture after *Ahimsa* adopted from Buddhism. You are what you eat or you are what you think!
• Any idol of god does not represent true ‘*Nirgun Nirakar*’ Brahman-they are simply models.
Evolution Vs. Creation

- Although both possibilities are addressed in original Vedas, evolution is followed through dashavtars (ten reincarnations) of Vishnu
- 1-fish - life in water
- 2-turtle - life in water and on land
- 3-bull - life on land
- 4-nrusinha - half man half animal (lion)
- 5- vaman - complete man
Remaining five of the Dashavatar

- 6-Parashuram (human)
- 7-Ram (human)
- 8-Krishna (human)
- 9-Buddha (human)
- 10-Kalaki (?)
Various Gods

- **Ganesha**-lowest energy—likes red color—low frequency
- **Vishnu**—likes yellow—medium frequency
- **Goddess**—likes green color
- **Shiva**—highest energy—likes blue or purple color—high frequency

Various concepts such as

- Force
- Momentum
- Energy
- Potential
- Electric charge
- Field
- Flux
Comparison

- Science/physics
- Evolution of brain
- Why ask why?
- Journey from Classical to Quantum to watered down physics
- Hindu religion
- Evolution of mind
- Upanishads are result of answers to question why?
- Vedas, Upanishads, Bhagavad-Gita and Puranas
What and Why?

• Factual - biology, geology, astronomy
• Western religions
  Answers to what?

• Philosophical - physics and chemistry partially
• Eastern religions
  Answers to why?
Three Schools of Thought

• Cause and effect (Karma-fruit)
• Everything is predetermined-God doesn’t play dice!

• Game of chances

• Reality

• Newtonian (European)
• Einsteinian (Eastern) (evolution)

• Heisenbergian (Native American)
* Mixture of all
Effect of Religion on Science Education

- Teaching evolution or creation?
- Apathy or curiosity about science.
- Acceptance/non acceptance of scientific ideas, concepts.
- Choosing major or career.
- ?
A BIG THANK YOU!

- AAPT
- EAC
- AND ALL OF YOU!!

धन्यवाद!