



Metacomputics Labs

Programming of Everything

元计算学实验室

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未来科学是东方科学



Metacomputics Labs

Programming of Everything

TSC2016 国际意识科学大会回顾

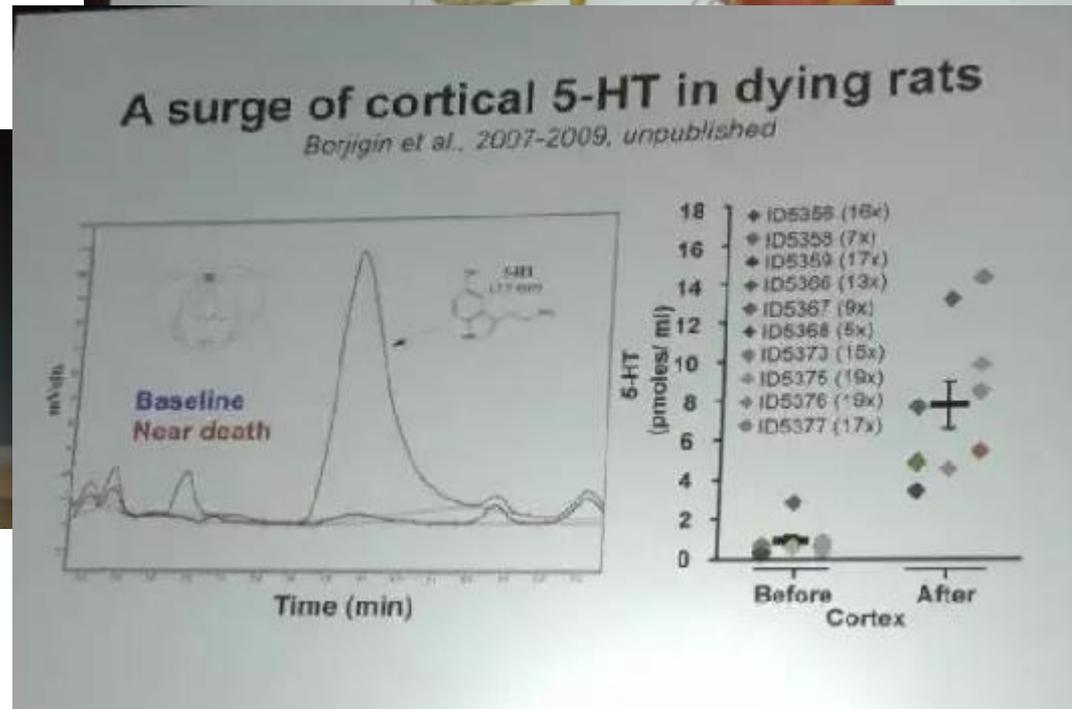
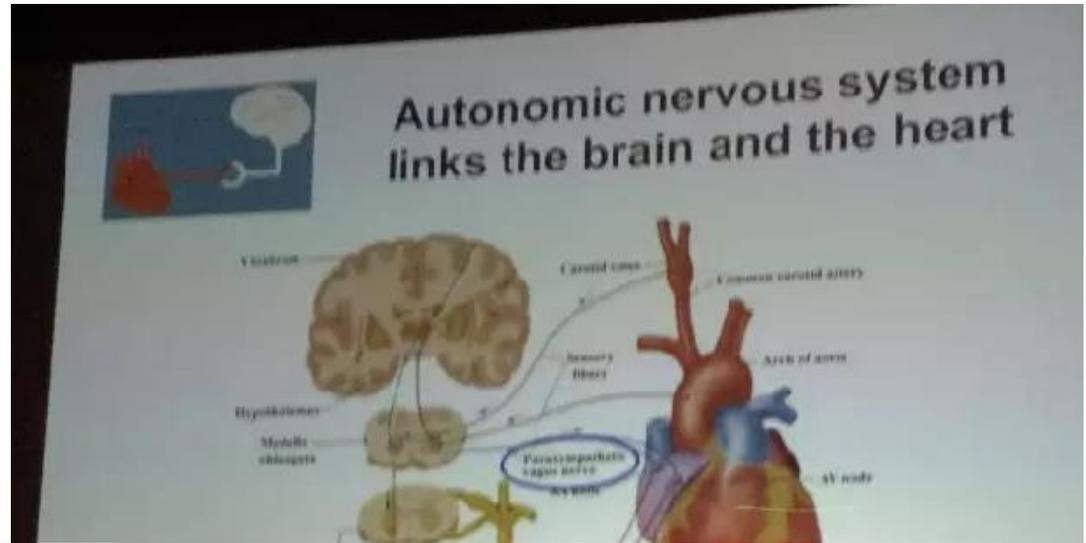
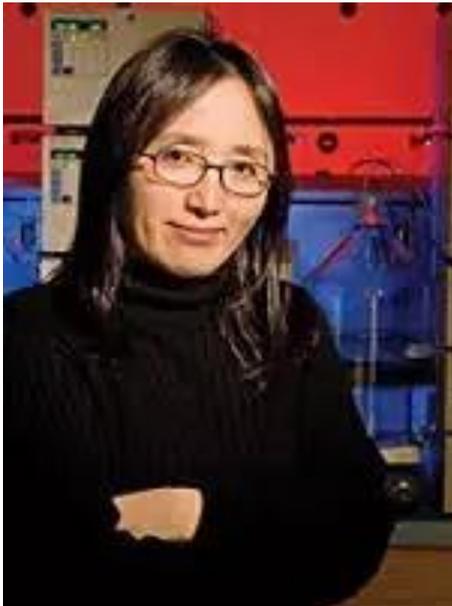


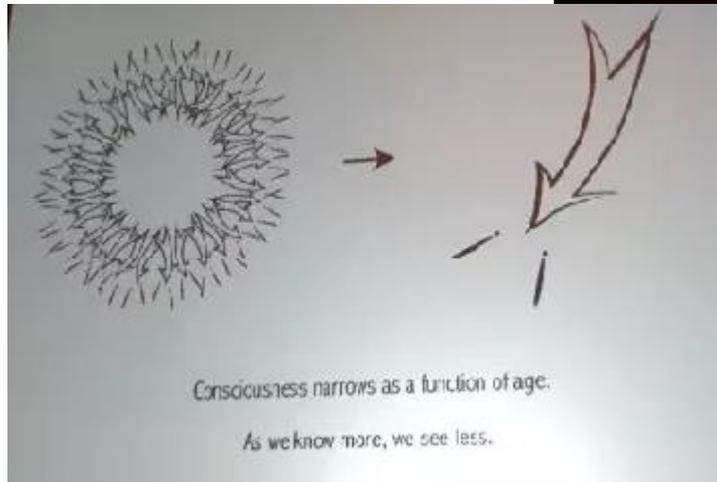
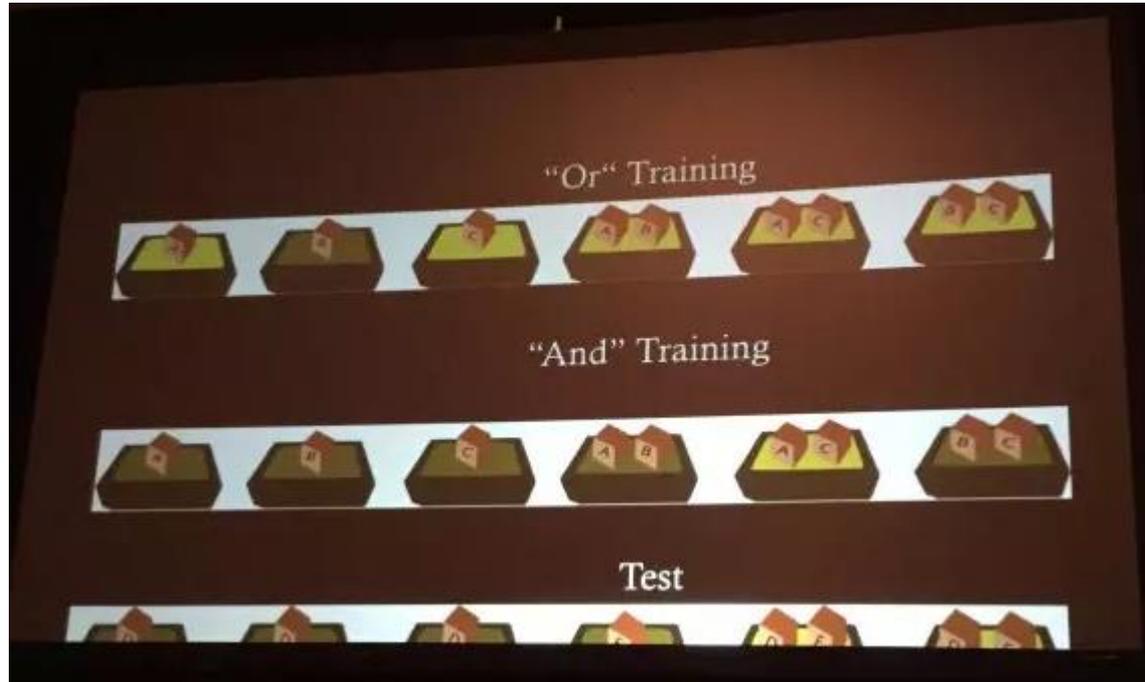
TSC2016是94年第一次召开以来的参加人数最多的一次。大会有来自**100**多个国家的超过**1000**人参加。

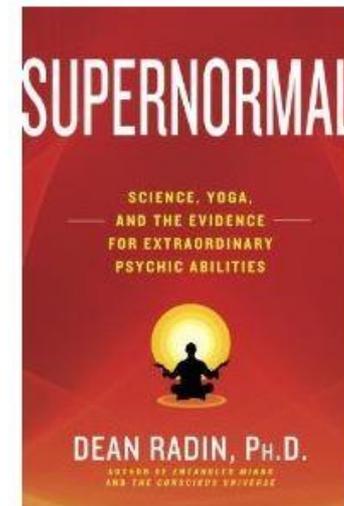
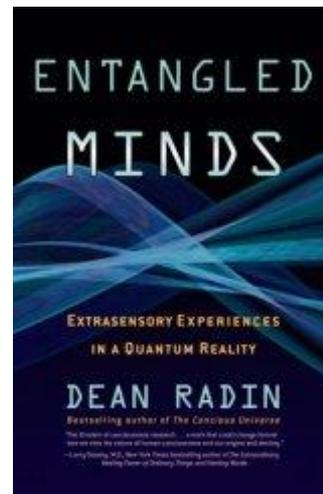
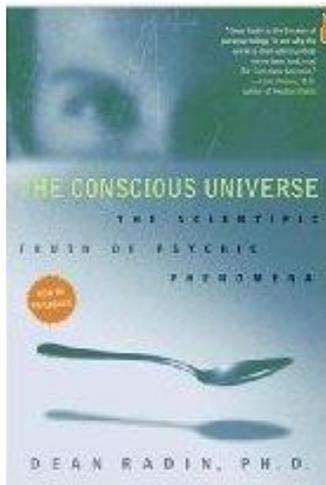
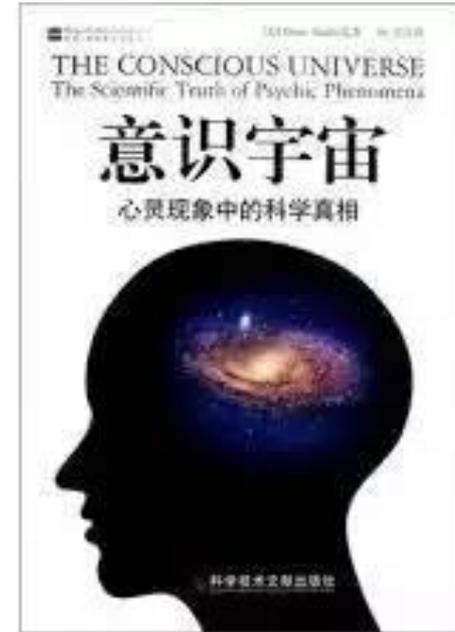
现象学

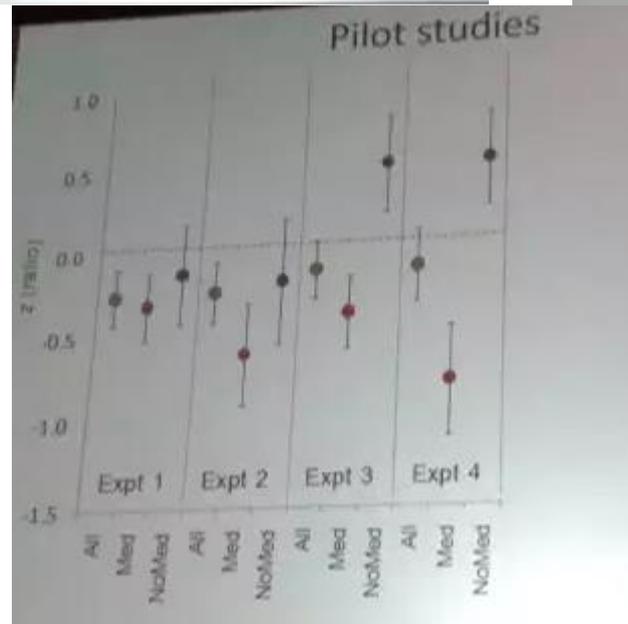
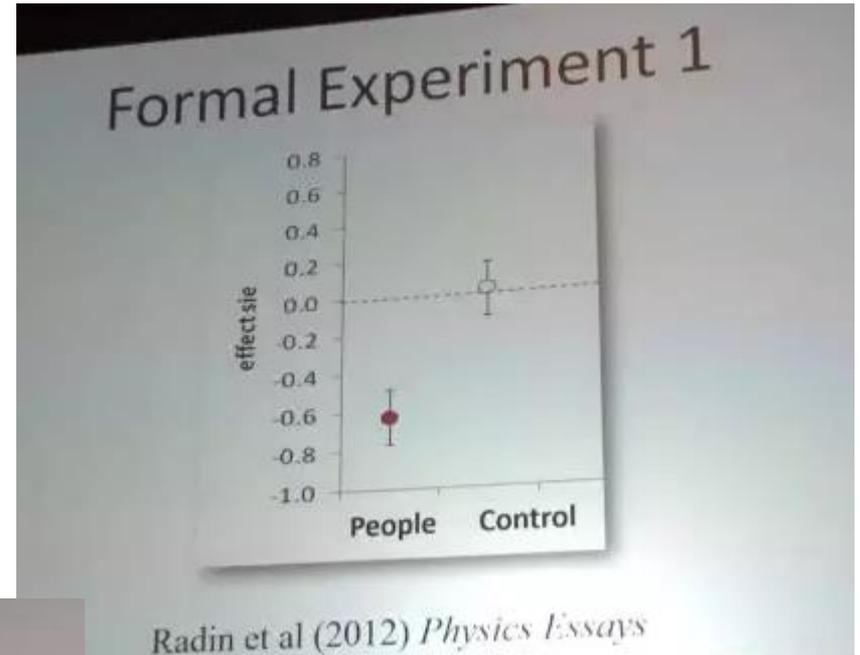
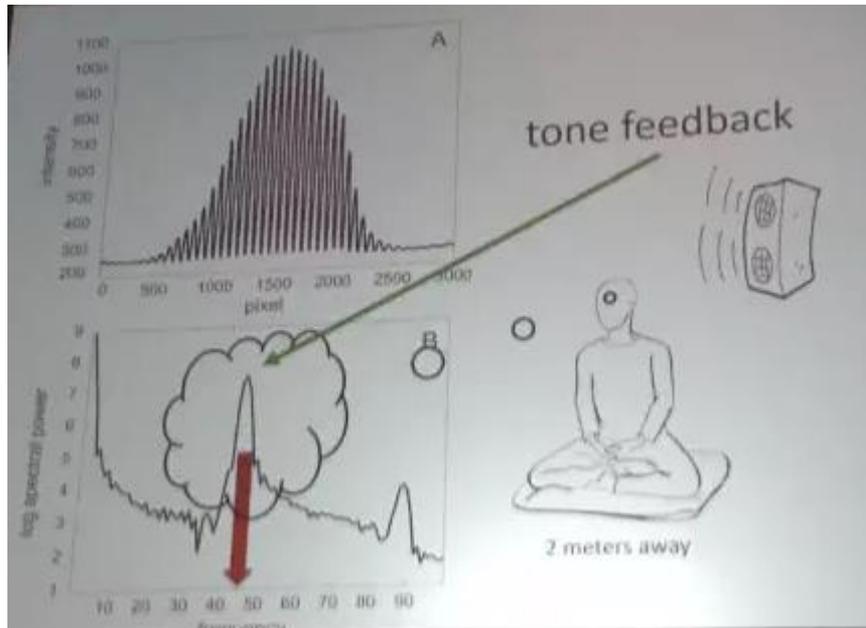
产生机理

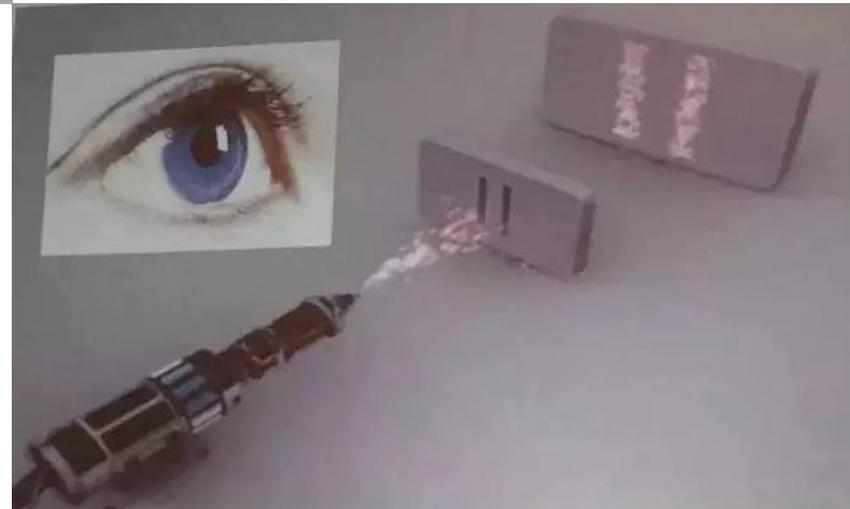
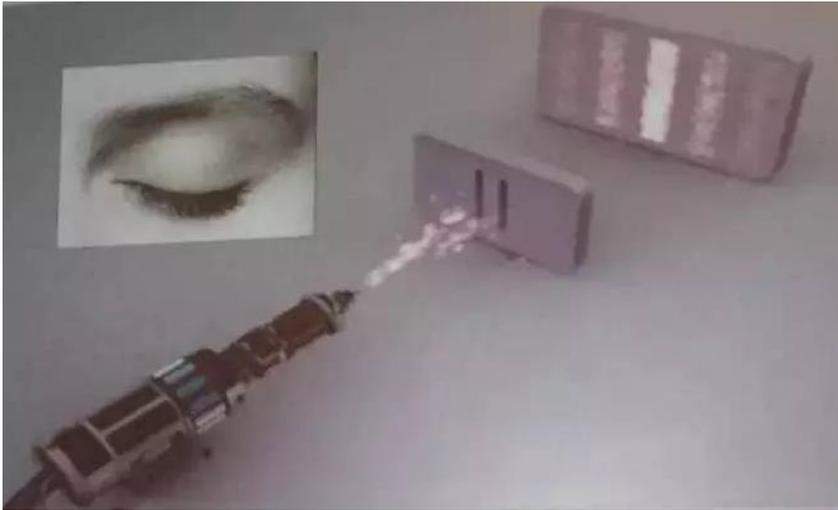
哲学探索

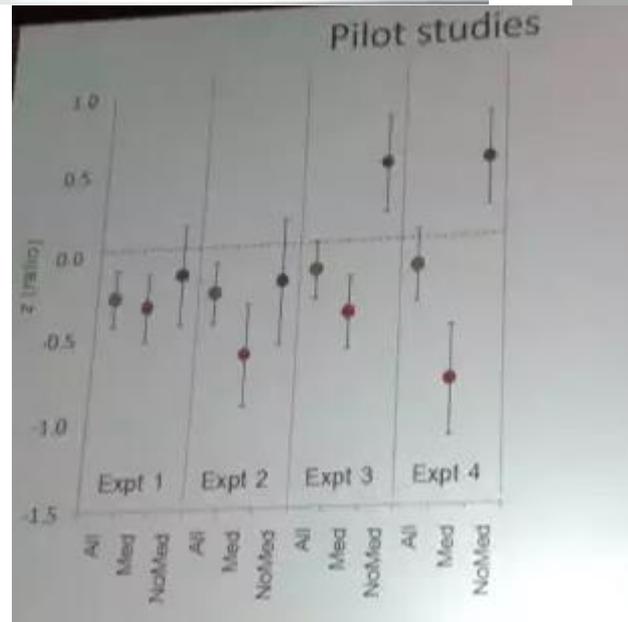
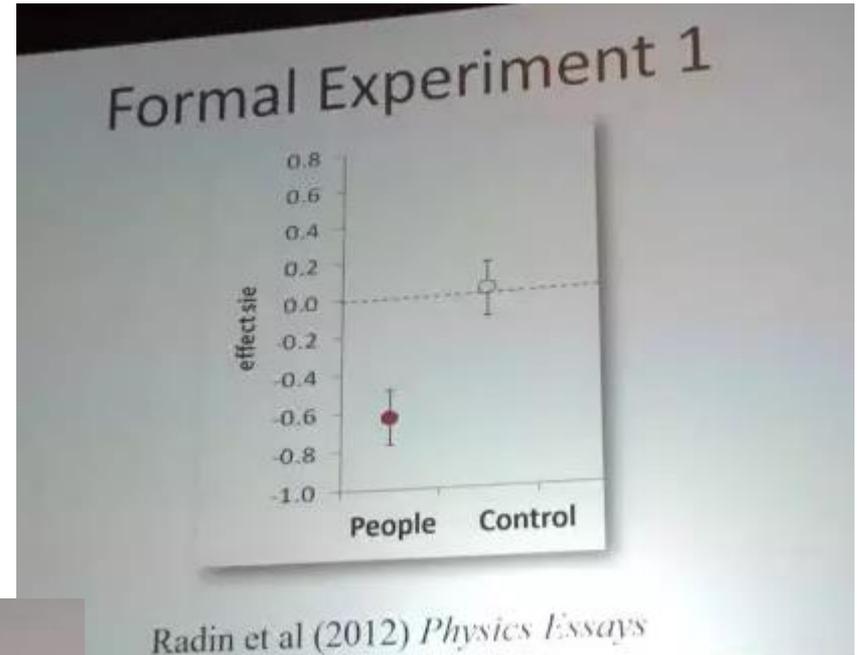
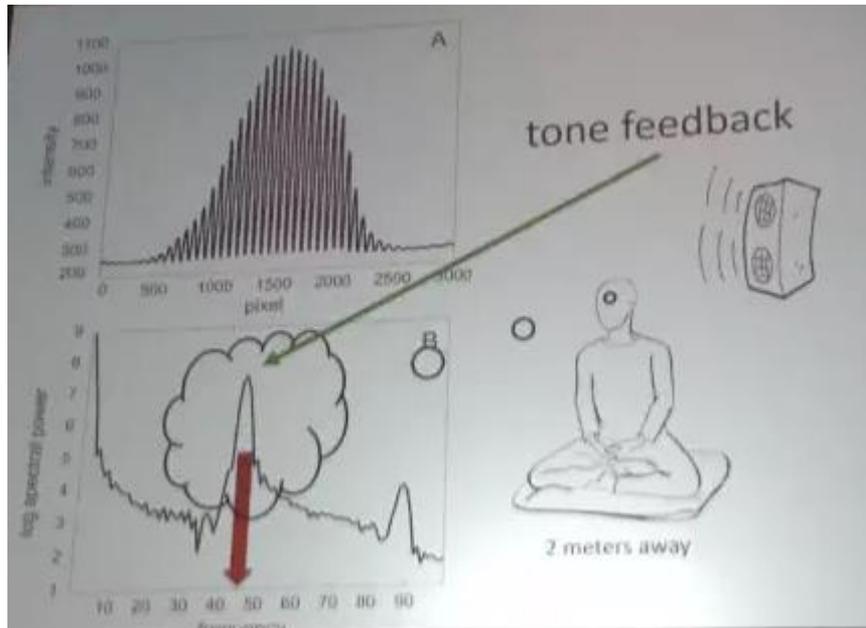


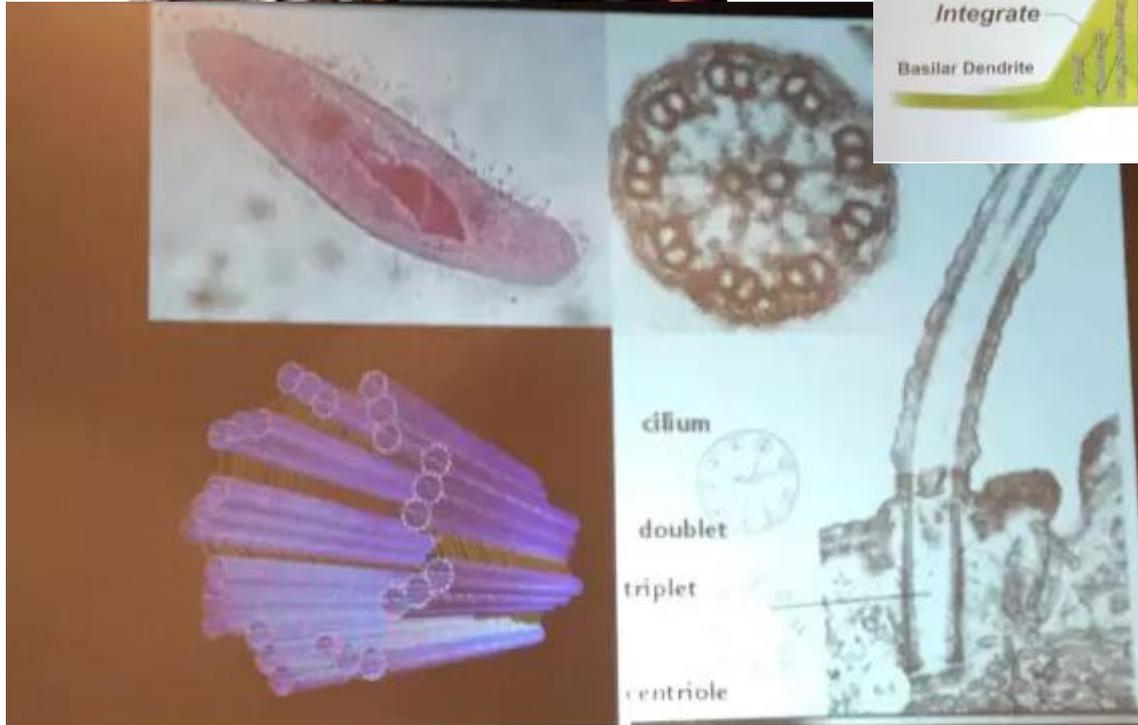
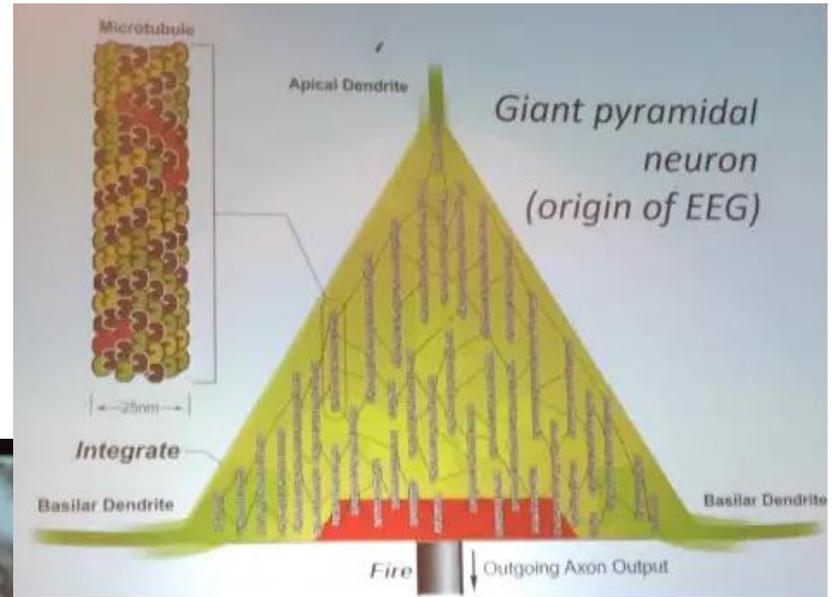


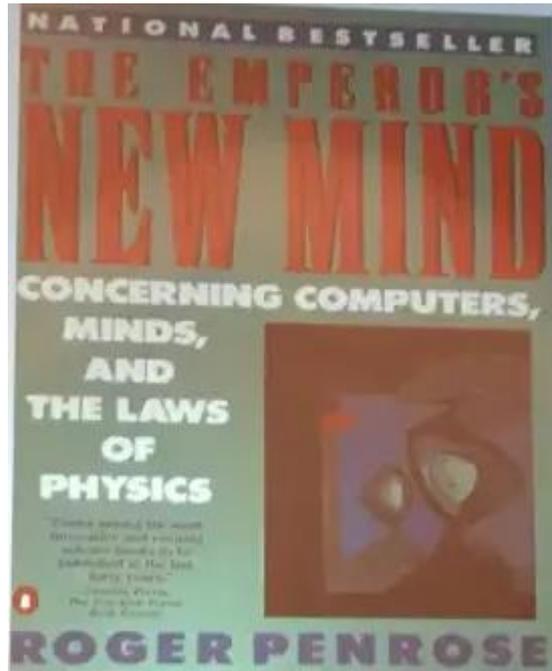




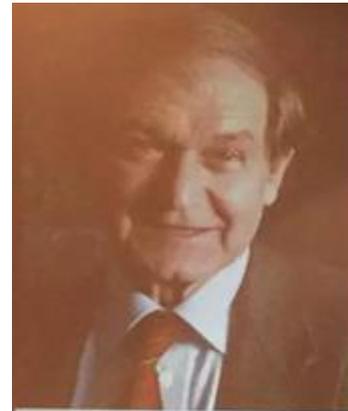






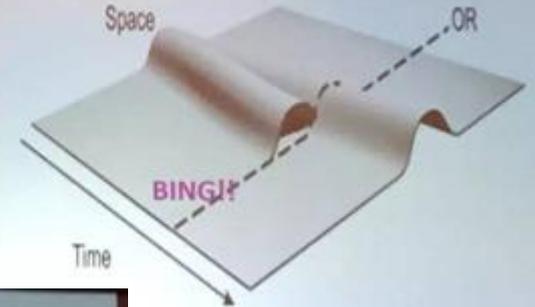


Sir Roger Penrose



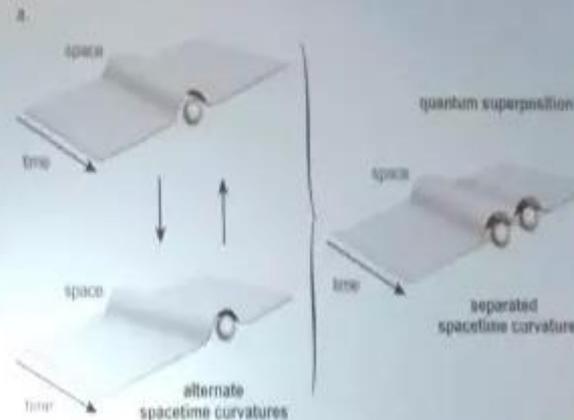
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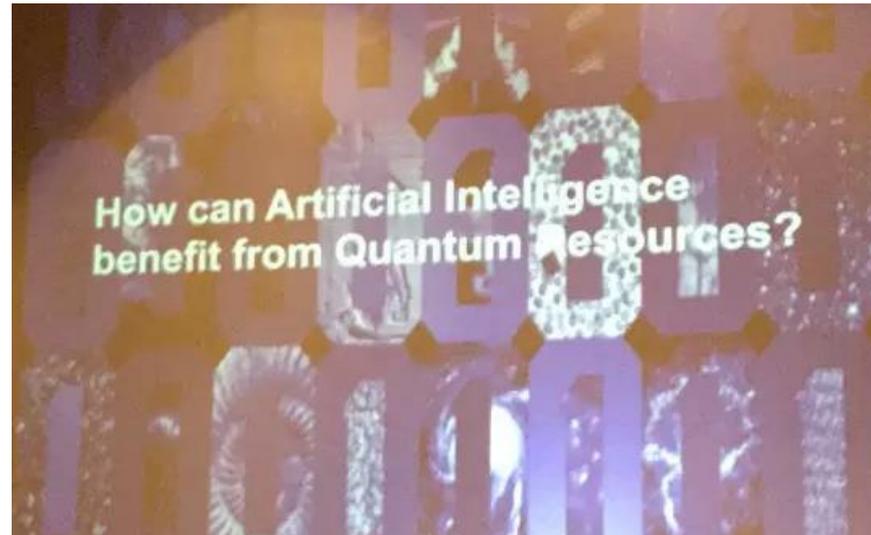
Superpositions/separations are unstable, will self-collapse, undergo objective reduction, 'OR' at time $t = h/E_G$



Or, does *self-collapse* cause *consciousness*?

Superposition of possibilities equivalent to separated curvatures in spacetime geometry





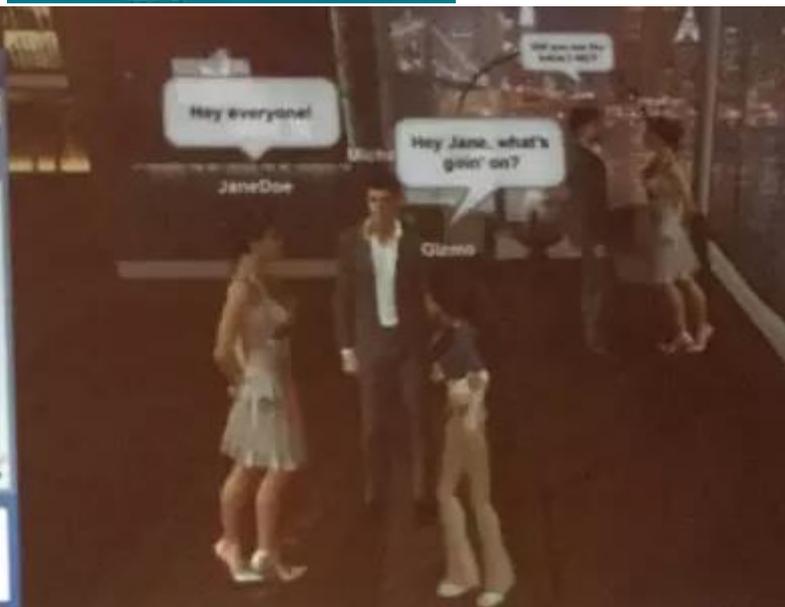
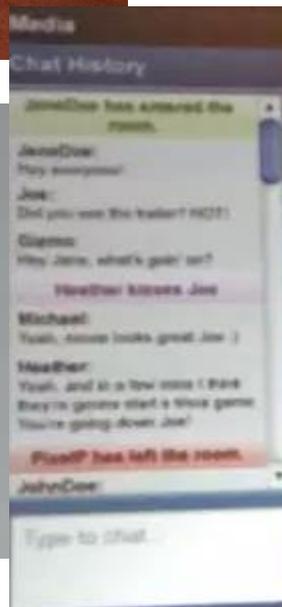
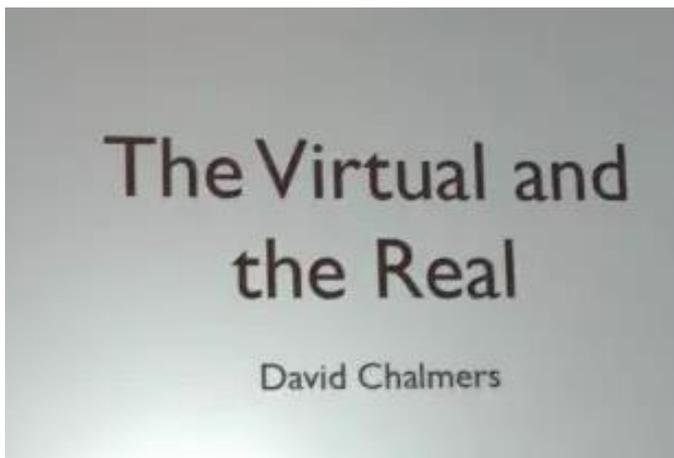
Can Quantum Computing help us understand Consciousness?

- No!
- My belief: Ability for conscious experience is associated with the elements of physics.*
- Consciousness is not accessible via methods of experimental science because there is no measurement protocol.

Could there be Machine Consciousness?

- Building conscious machines could be easy.
- It may be possible to define a "Turing Test" for machine consciousness.

A photograph of a quantum cryostat, a complex piece of scientific equipment used for studying quantum phenomena at very low temperatures. It consists of several stacked cylindrical chambers and is surrounded by a network of pipes and support structures.



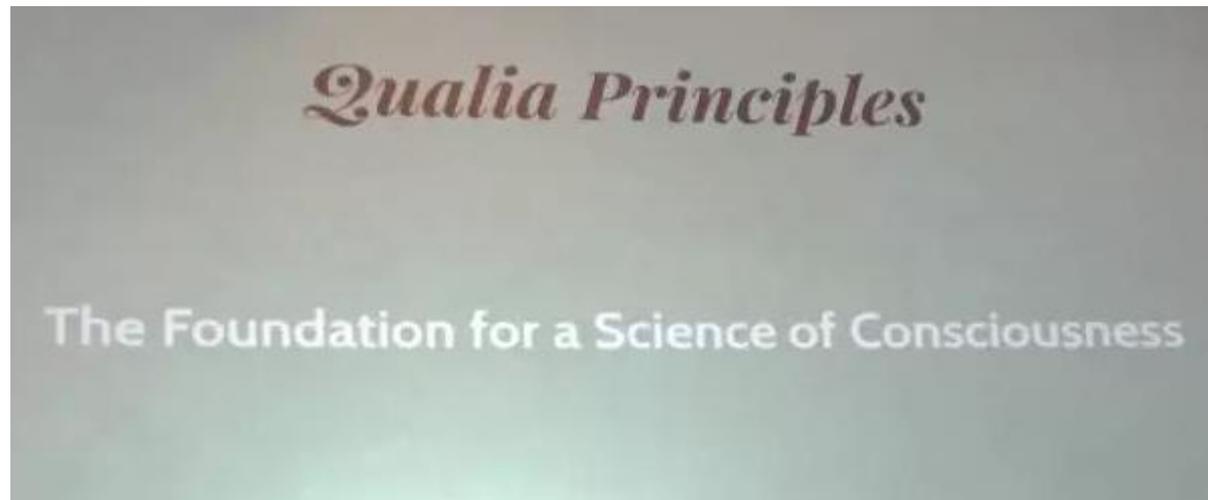
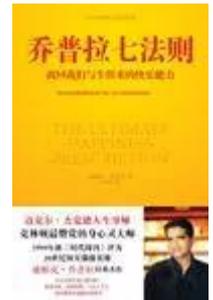
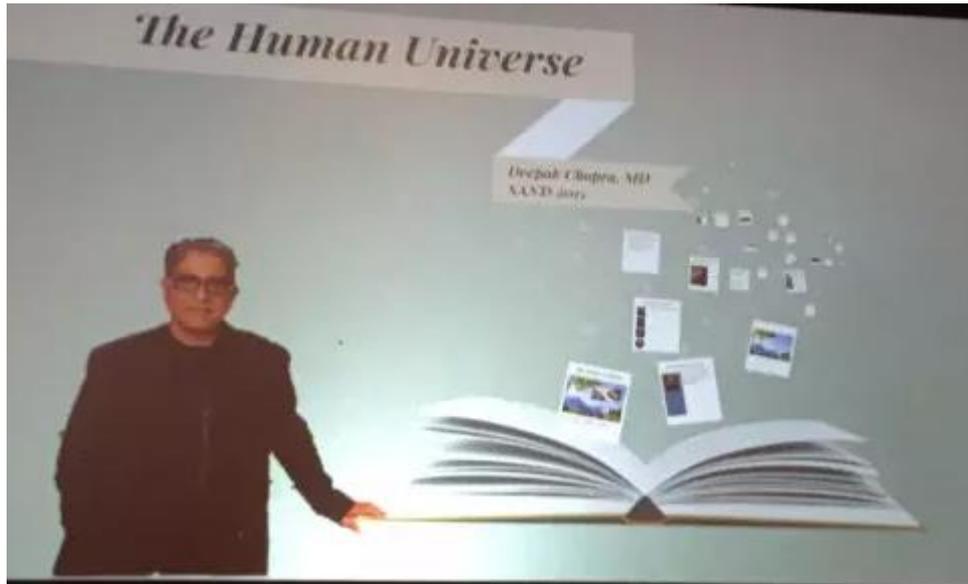
Conclusion I

- Reality = structural reality plus mental reality.

Physical Reality vs Virtual Reality

- When we think of virtual reality as less "real" than physical reality, we think we have an intrinsic grasp of physical reality.
- E.g. we think that we grasp solidity or spatiality in themselves.
- We don't: we just grasp their structure.
- Our grasp on physical reality is no different in principle from our grasp on virtual reality.

虚拟物体是数码物体，虚拟事件是数码事件，虚拟世界是数码世界，虚拟经历和现实世界的经历有同等，而不是次等，的价值。





“意识科学” 还处于摸索阶段

- “以物化心” - 量子意识论
 - 不能证明量子效应/意识现象之间的因果关系。机理并不清晰，无法推测实验。
- “心物独立” - 二元论的观点
 - 否定了“以物化心”的哲学思路。割裂了物质和精神的关系。不符合我们的生活经验。
- “以心化物” - 唯心主义
 - 无清晰的技术路径，提不出心-物转化的机理和模型，形不成科学理论，停留在哲学范畴。

TSC2017 国际意识科学大会



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