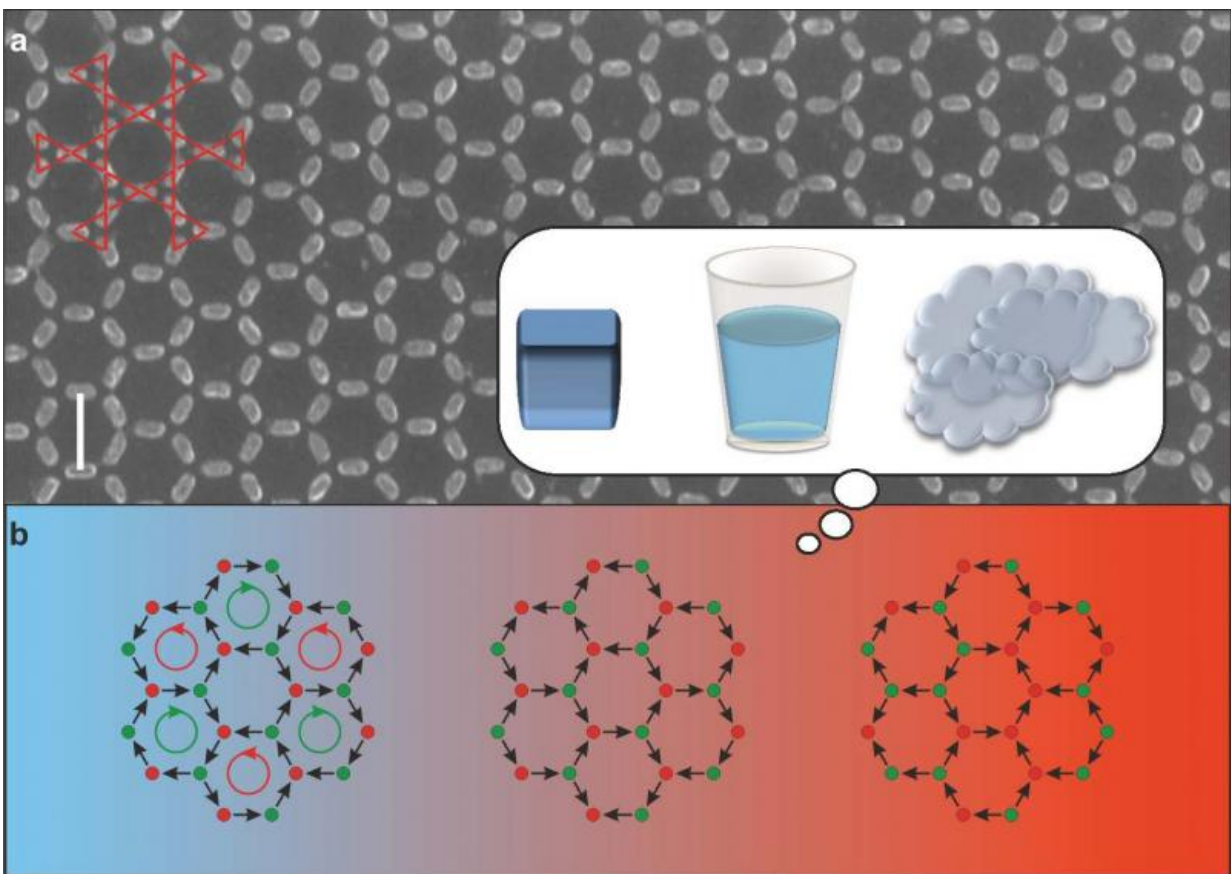


# Best of Last Week-How to put living organism into supposition state, linking human brains and brain part tied to anxiety

September 28 2015, by Bob Yirka



PSI researchers have created a magnetic metamaterial made of long nanomagnets, arranged in a flat, honeycomb pattern. The arrangement of magnetisation in the synthetic material assumed very different states at different temperatures – just like molecules in ice are more ordered than in water, and are in turn more ordered in water than in steam. Credit: PSI/Luca Anghinolfi

(Phys.org)—It has been a very interesting week for physics, particularly for those researchers working in applied areas, one team at the Paul Scherrer Institute created a synthetic material out of [a billion tiny magnets that mimic steam, water and ice](#). And a pair of researchers, one in the U.S. and the other in Iran, found that [a spinning ring on a table behaves more like a boomerang than a coin](#)—they believe it is due to the hole allowing air to pass through.

Also, another pair of researchers, one in China and the other in the U.S., offered [a way to put a living organism into a superposition state](#)—by sticking a bacterium to an oscillating membrane used in a prior experiment. And a team at NIST [broke the distance record for quantum teleportation](#)—they "teleported" light particles over 100 kilometers, quadruple the previous record. And a team at Lawrence Livermore National Laboratory described [a new theory of stealth dark matter that may explain the universe's missing mass](#)—they combined theoretical and computational techniques to come up with a model that describes the "stealthy" nature of the mysterious stuff. Also, a team working with ALICE at the LHC announced that they had confirmed [fundamental symmetry in nature](#) via measurements of particle mass and electric charges.

In other news, a team working at Harvard University announced that they had come up with [a rechargeable battery to power a home from rooftop solar panels](#)—they claim it is cost-effective, clean and safe, since it is not flammable. And in a rather eerie study, a group working at the University of Washington reported on a study in which [they linked two human brains for a question-and-answer experiment](#). Volunteers had their brains connected and were then able to ask questions and "hear" what the other person gave as an answer. A team with the U.S. Geological Survey published a report describing [how El Niño and La](#)

[Niña will exacerbate coastal hazards across the entire Pacific](#)—as global warming continues.

And finally, if you are feeling anxious, researchers at the University of Illinois suggested you [check your orbitofrontal cortex and cultivate your optimism](#)—grownups with larger OFC, they found, tend to be less anxious and more optimistic.

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