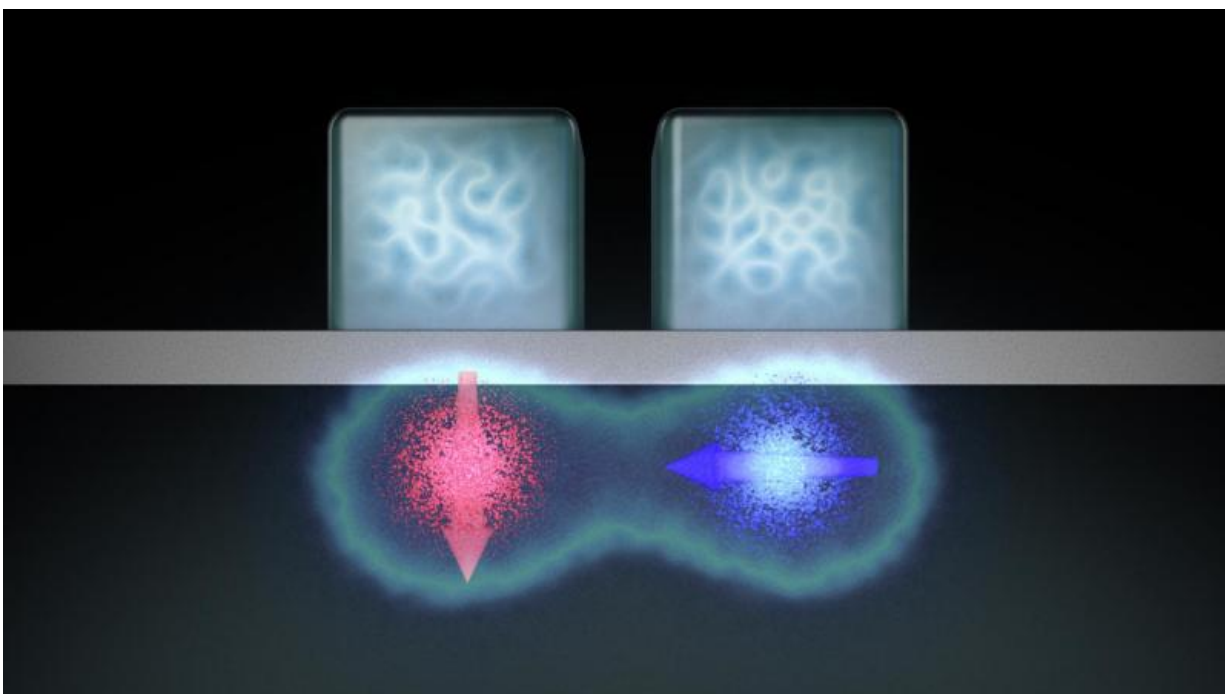


Best of Last Week—White holes, elephants and cancer and the impact of dominating parents

October 12 2015, by Bob Yirka



Artist's impression of the two-qubit logic gate device developed at UNSW. Each electron qubit (red and blue in the image) has a 'spin', or magnetic field, indicated by the arrows. Metal electrodes on the surface are used to manipulate the qubits, which interact to create an 'entangled' quantum state. Credit: Tony Melov/UNSW

(Phys.org)—It was another good week for physics; the Nobel Prize in

physics was awarded to Takaaki Kajita of Japan and Arthur McDonald of Canada for discovering [a missing piece in the neutrino mass puzzle](#). And a team working in Australia announced that [a crucial hurdle was overcome in quantum computing](#)—they demonstrated a two-qubit logic gate, and did it in silicon. Also a pair of physicists Hal Haggard and Carlo Rovelli in France asked: [What are white holes?](#) They are looking into whether the whole idea might be more than purely theoretical.

In other news, a team of researchers with the University of Illinois partnered with a group in Hungary and together they found that [an AI machine achieved an IQ test score of a young child](#). The machine was ConceptNet, a project at MIT, and the findings represent another leap for computer smarts. Also, a company called Light introduced [a multi-aperture computational camera](#)—it is actually 16 cameras in one box taking pictures using ten of the lenses at a time to capture multiple focal lengths. And a trio of researchers with Wayne State University and Pennsylvania State University announced that they had found [a way to convert harmful algal blooms into high-performance battery electrodes](#).

Also a team at the University of Southampton in the U.K. found [a new way to weigh a star](#)—by using math models, theory, super-fluidity and glitches in pulsars . Also researchers at Arizona State University made worldwide headlines due to a *Newsweek* article on [how elephants provide big clues in the fight against cancer](#)—turns out they have a gene that is 20 times more prevalent than in any other mammal. Also another team of researchers at Harvard University announced that they had [massively edited the genome of pigs to turn them into perfect human organ donors](#).

And finally, if you are the offspring of a domineering mom or dad, a team of researchers at the University of Sussex in the U.K. has conducted a study that shows [how dominant parents affect kids' self-worth](#). And it depends, apparently, on which country you grow up in.

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