

Café Scientifique

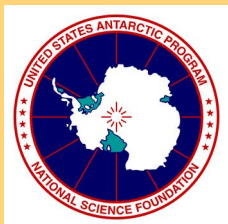
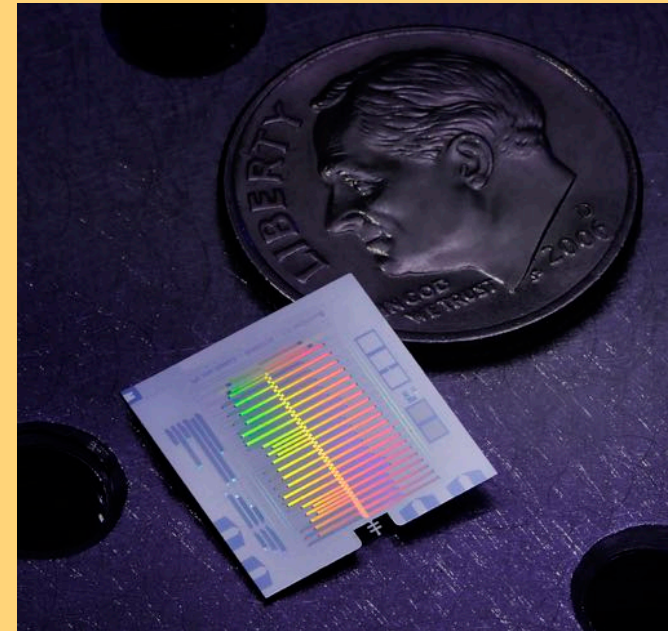
Using nano-scale devices to study the most distant objects in the Universe from the South Pole



Presenter:
Erik Shirokoff
Time & Date:
7-9 PM
MONDAY

March 28, 2016

(Free, Limited to first 50 Attendees)



Location: The Map Room
(www.maproom.com) 1949 N. Hoyne



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Using nano-scale devices to study the most distant objects in the Universe from the South Pole



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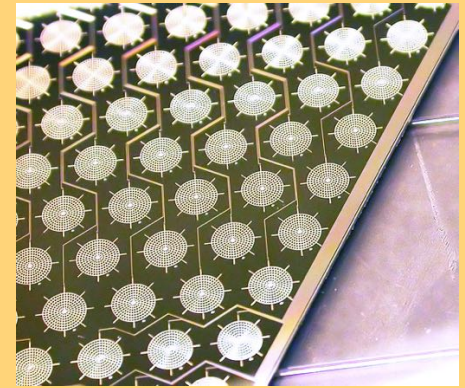
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Some of the most distant objects in the Universe can only be studied with submillimeter wavelength instruments. These ancient objects include the cosmic microwave background - relic radiation left over from the the Big Bang - and the galaxies that hosted the first generation of stars. To see these distant signals we employ microscopic superconducting devices operating a fraction of a degree above absolute zero. And to see through the earth's atmosphere, we operate telescopes in some the most remote locations on Earth, including the South Pole and the Atacama Desert. We will talk about the instruments, the remote observatories we're building, and what we hope to reveal with them.

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