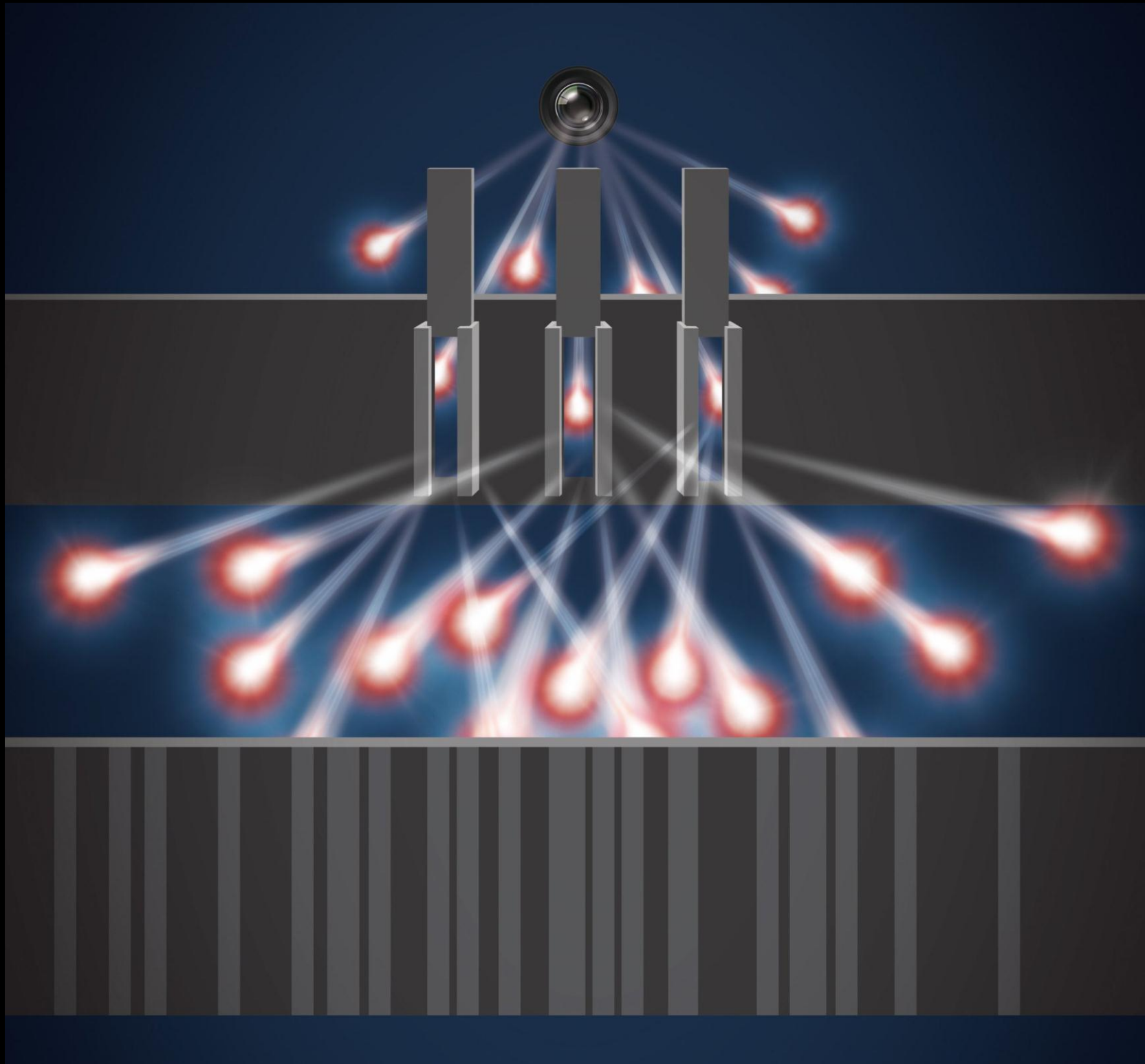


Quantum Information Theory – Lecture Series

3 p.m. - June 16-20, Lecture Room AG 80

TIFR, Homi Bhabha Road, Colaba, Mumbai 400005



What are the ultimate limits that nature imposes on communication, and what are effective procedures for achieving these limits? These are some of the questions that drive the thriving research area of quantum information theory, and in order to answer them convincingly, we must reassess Shannon's theory of information under a "quantum lens." That is, since quantum mechanics represents our best understanding of microscopic physical phenomena and since information is ultimately encoded into a physical system of some form, it is necessary for us to revise the laws of information established many years ago by Shannon.



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