اخبار ماه

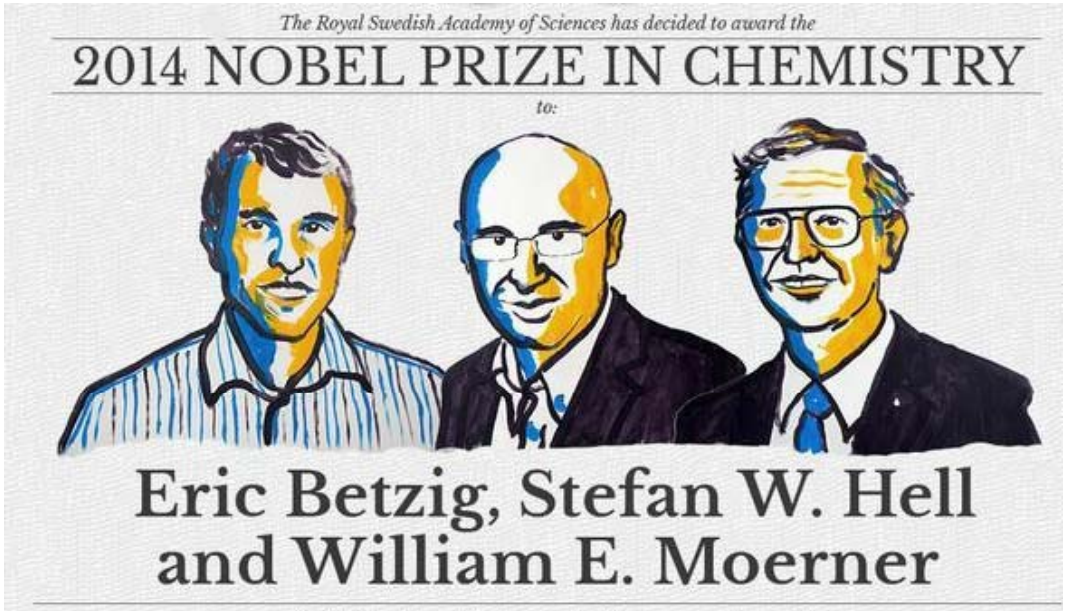
باشگاه فیزیک

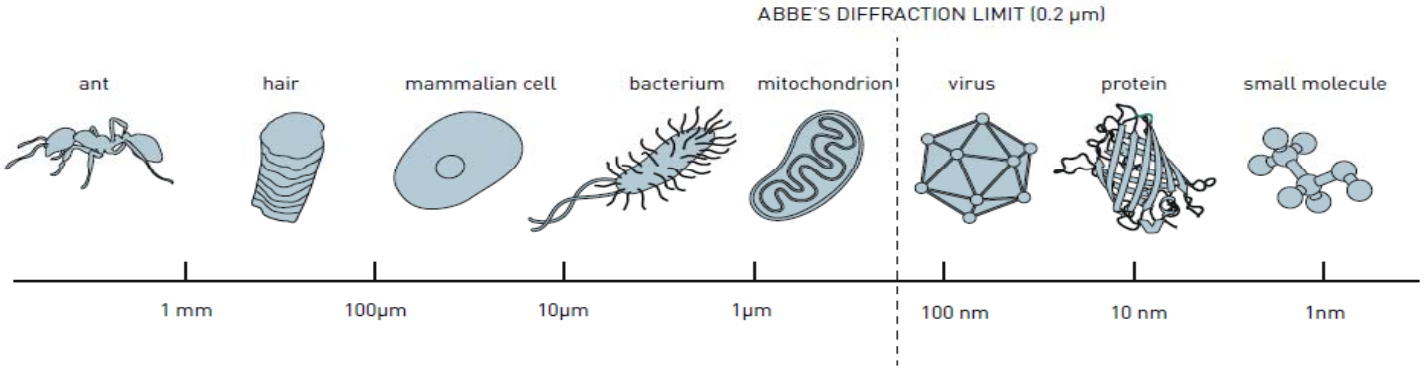
نشست آبان ۹۳

سه کوچولو در باب نوبل فیزیک

- نویسندگان مقالات در Nature و Science
- از چه کسانی نقل قول شده بود؟
- فیزیک‌دان‌های وبلاگ‌نویس؟

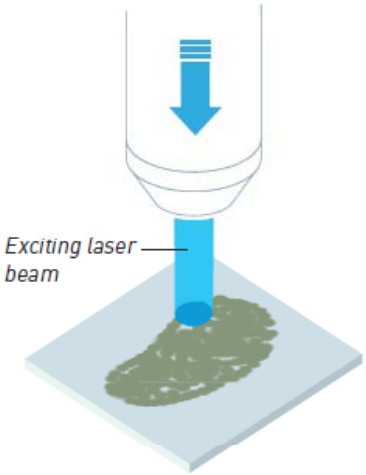
Nanoscope: نوبل شیمی





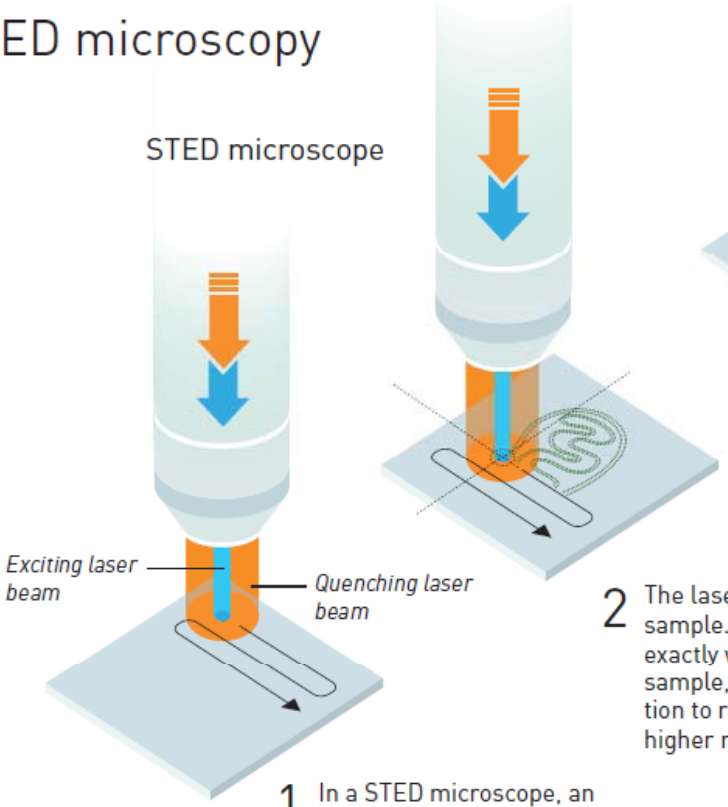
The principle of STED microscopy

Regular optical microscope



In a regular optical microscope, the contours of a mitochondrion can be distinguished, but the resolution can never get better than 0.2 micrometres.

STED microscope

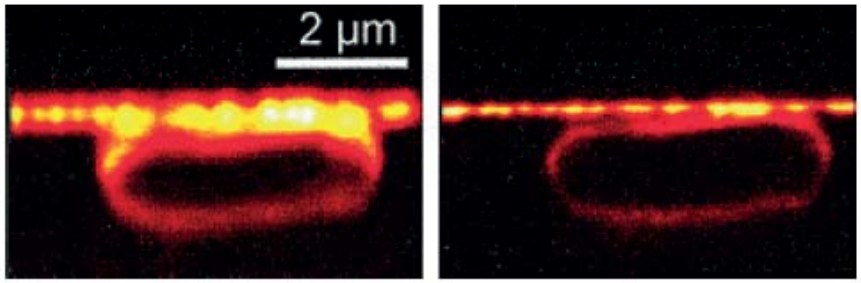


1 In a STED microscope, an annular laser beam quenches all fluorescence except that in a nanometre-sized volume.

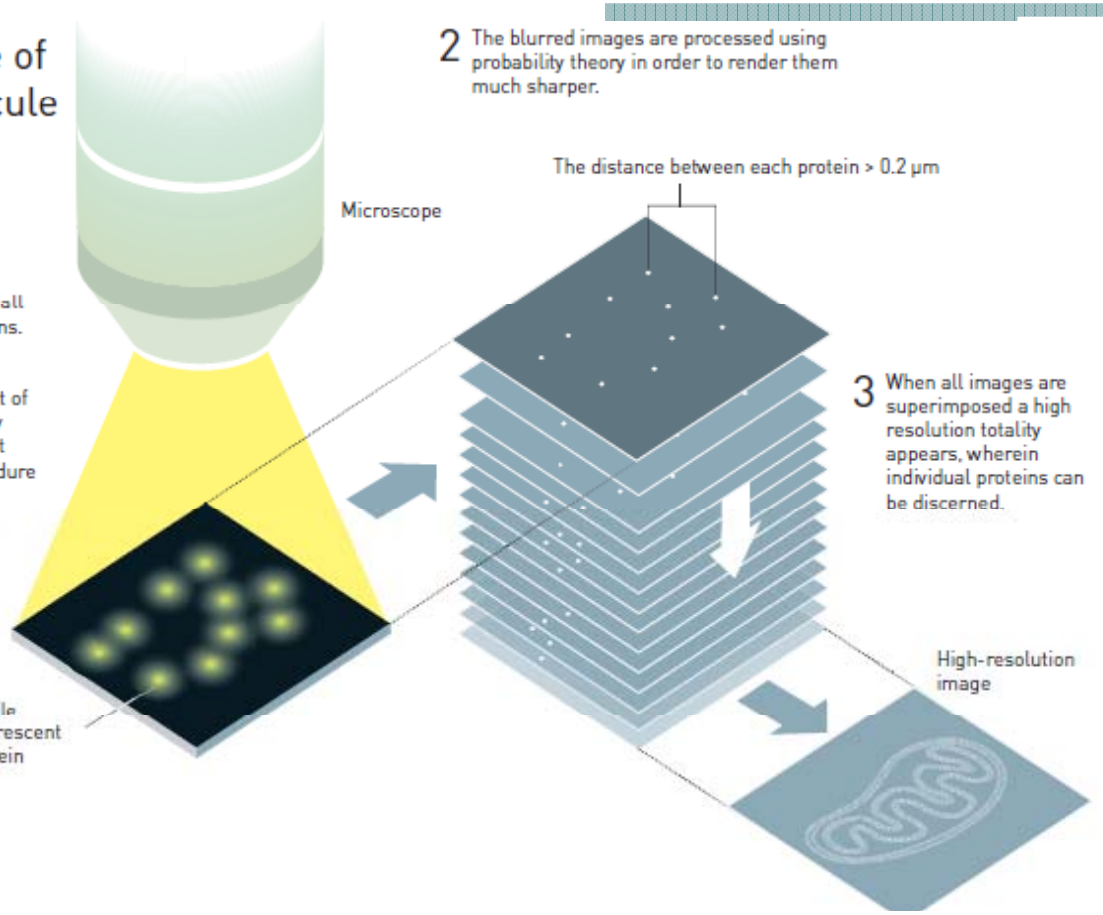
2 The laser beams scan over the sample. Since scientists know exactly where the beam hits the sample, they can use that information to render the image at a much higher resolution.

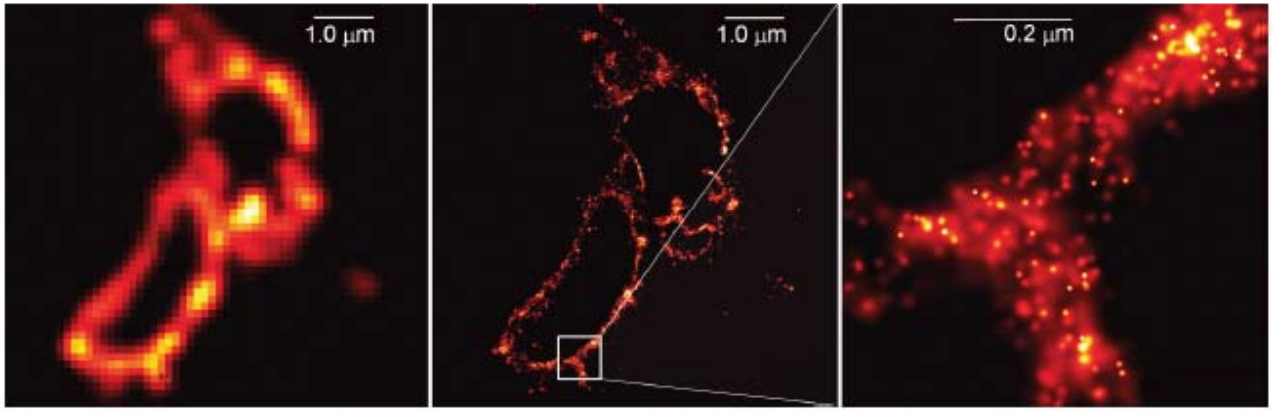
3 The final image gets a resolution that is much better than 0.2 micrometre.

E.coli

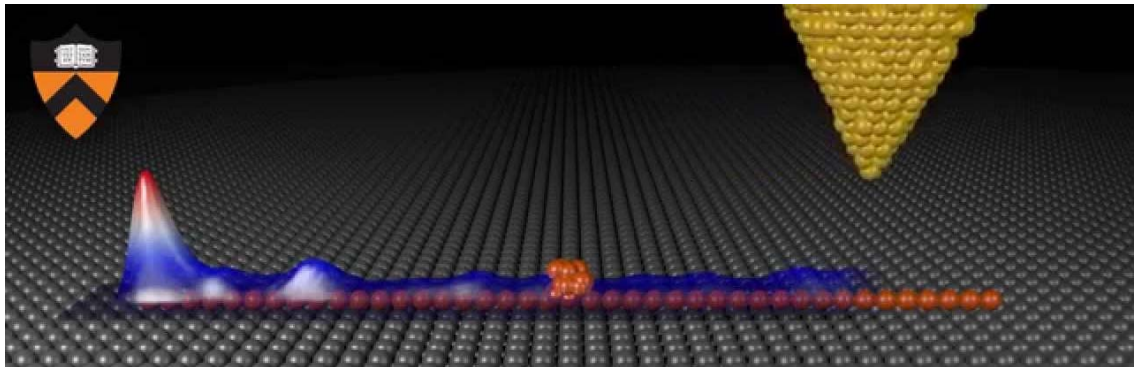


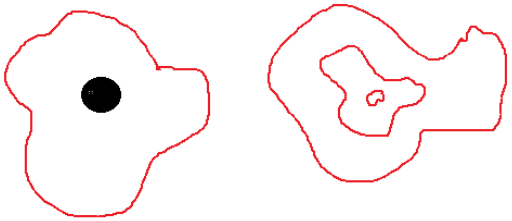
The principle of single-molecule microscopy





ذره‌ای که ضد خودش است، توپولوژی، محاسبات کوانتومی و چند داستان دیگر



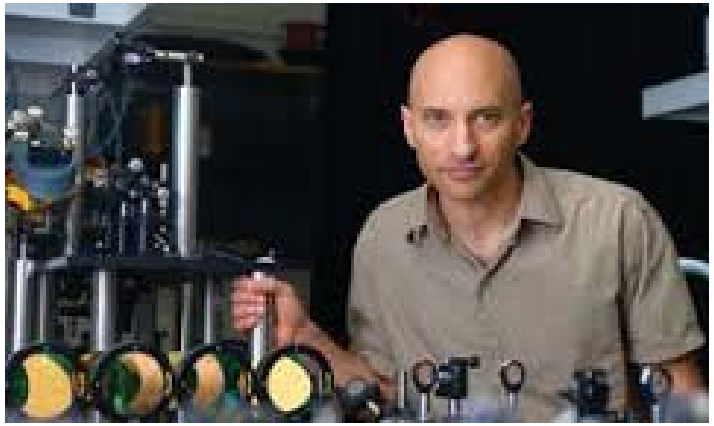


Alexei Kitaev

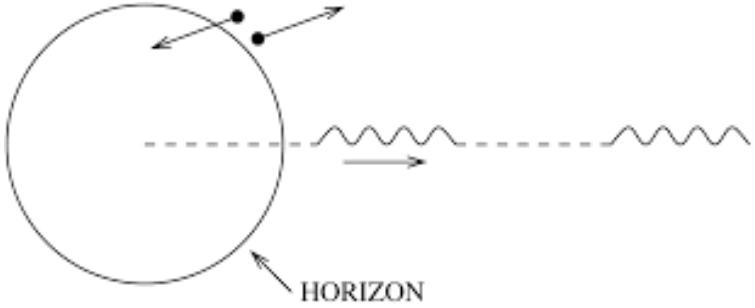
Ali Yazdani

Andrei Bernevig

تابش هاوکینگ‌خان در آزمایشگاه اتم‌های فوق‌سرد



Jeff Steinhauer



خوش باشید ☺