

Nature数据库使用介绍  
第八届国外引进数据库培训周

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NPG Nature Asia-Pacific

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2010年5月13日

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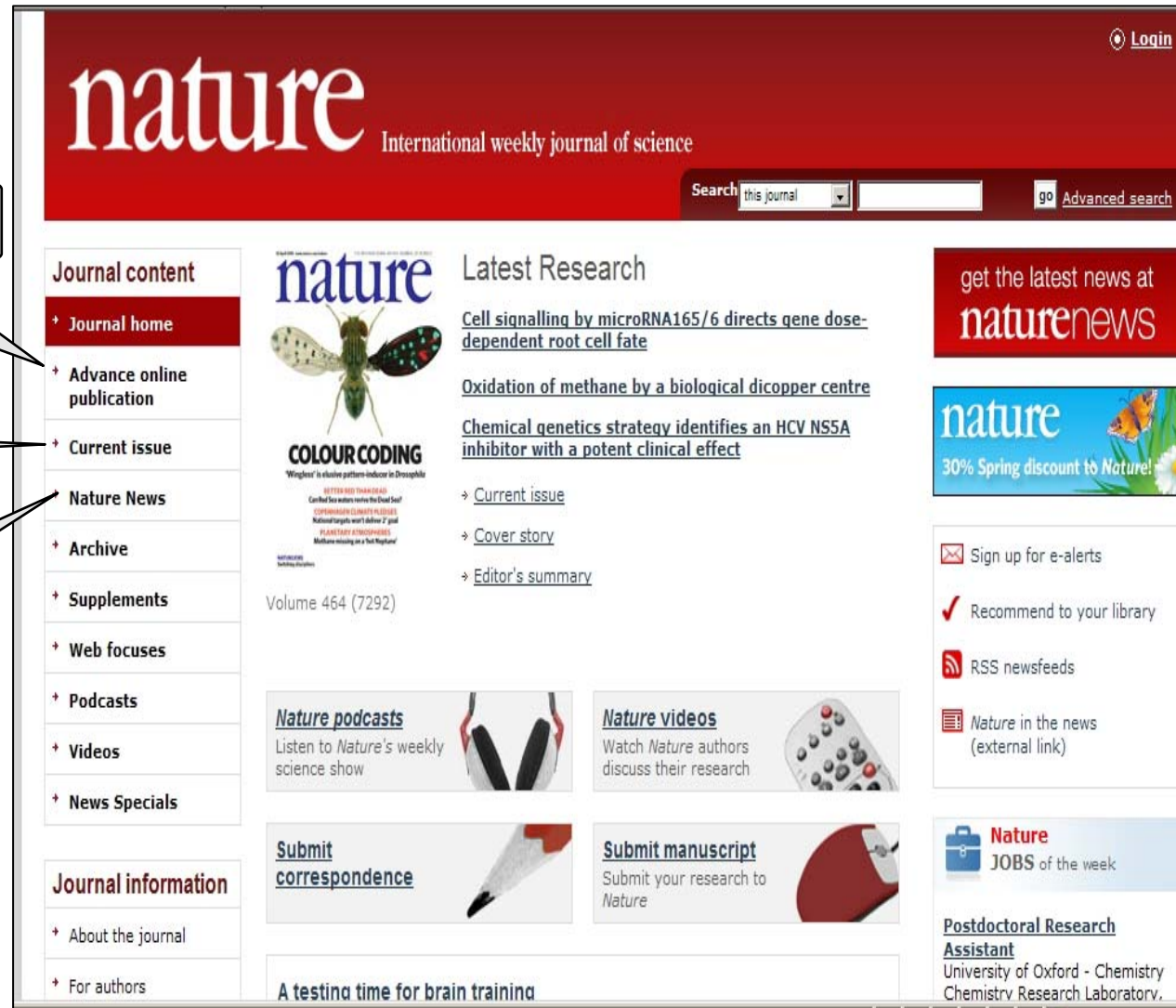
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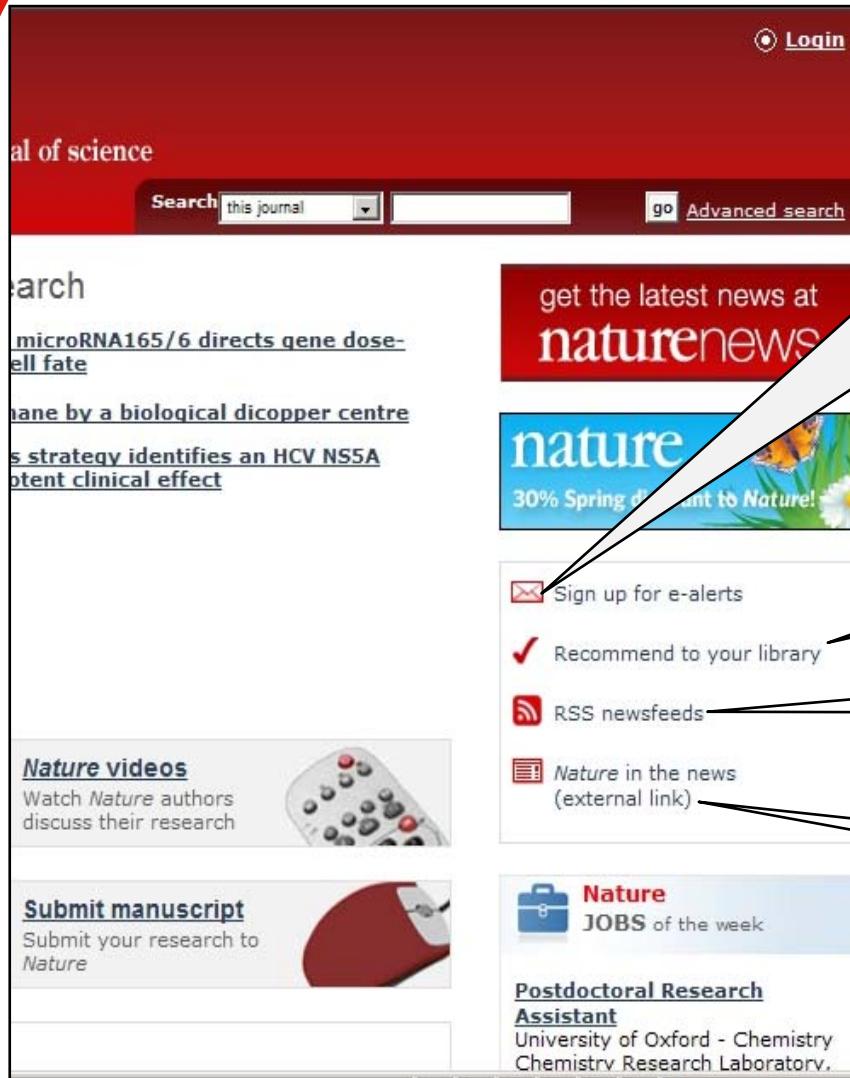
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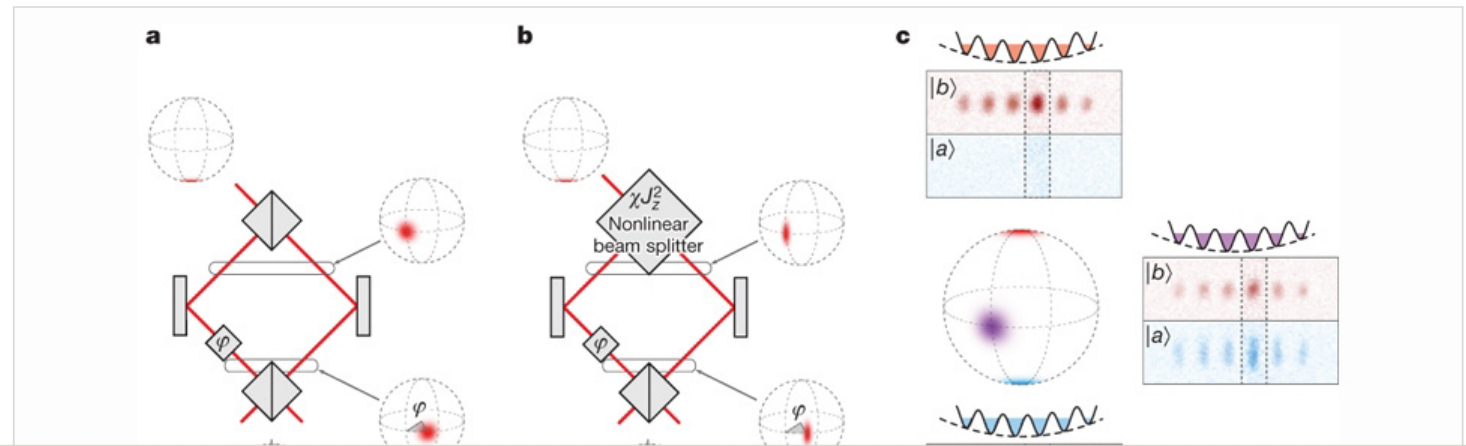
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## FIGURE 1. Comparison of linear and nonlinear interferometry.

From the following article:  
**Nonlinear atom interferometer surpasses classical precision limit**  
 C. Gross, T. Zibold, E. Nicklas, J. Estève & M. K. Oberthaler  
 Nature 464, 1165-1169(22 April 2010)  
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respective populations of the two modes *a* and *b*, the two states are coupled again before readout. Varying the relative phase by  $2\pi$  causes the observed population difference to change sinusoidally, producing a so-called Ramsey fringe. The interferometer's phase error,  $\Delta\phi = \Delta n / (\partial n / \partial \phi)$ , is determined from the root mean squared error,  $\Delta n$ , of the population difference and the slope of the interference signal,  $\partial n / \partial \phi$ . Best experimental performance is achieved at the zero crossing ( $n = 0$ ) of the Ramsey fringe, where the slope is maximal.

+ M. K. Oberthaler

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*Louis M. Weiner, Rishi Surana, Shangzi Wang*

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