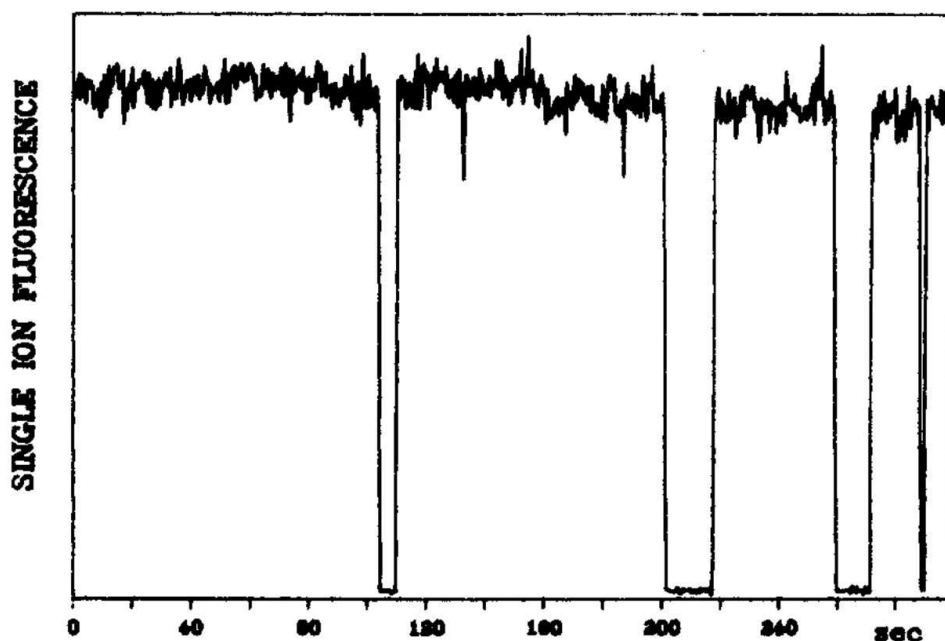


# PHYSIKALISCHES KOLLOQUIUM

AM 22. OKTOBER 2012 UM 17 UHR C.T.

IM GROßEN HÖRSAAL



"Quantum jumps" in the fluorescence signal of a single trapped barium ion. Observation reported in Th. Sauter, W. Neuhauser, R. Blatt, and P.E. Toschek, Phys. Rev. Lett. 57, 1696 (1986), Fig. 3.

## NOBEL PRIZE IN PHYSICS 2012 – ICHTHYOSAURUS AND THE LONELY QUANTA

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 UNIVERSITY OF FREIBURG

The Nobel Prize 2012 has been awarded to Serge Haroche (Laboratoire Kastler Brossel de l'Ecole Normale Supérieure, Paris) and David Wineland (National Institute of Standards and Technology, Boulder) *"for ground-breaking experimental methods that enable measuring and manipulation of individual quantum systems"*. This (informal) colloquium will attempt to give a brief sketch of the last three decades' - breathtaking - scientific advances that have led to this prize. An artist's view on this laureated kind of physics will be provided by a documentary movie which radiates the involved scientists' passion, and questions and discussion are invited thereafter.