News Release Digest

HITACHI **Inspire the Next** 

## Platform Research

Cambridge Research Laboratory

Hitachi Cambridge Research Laboratory

(Physics Review Letters, Feb 2005)

computing

(Nature Physics, Aug 2009)

(Science, Feb 2010)

in

World-leading spintronics research

> 2005 Measurement of the "Spin-Hall Effect" which indicates

magnetic characteristics, by delivering only an electric

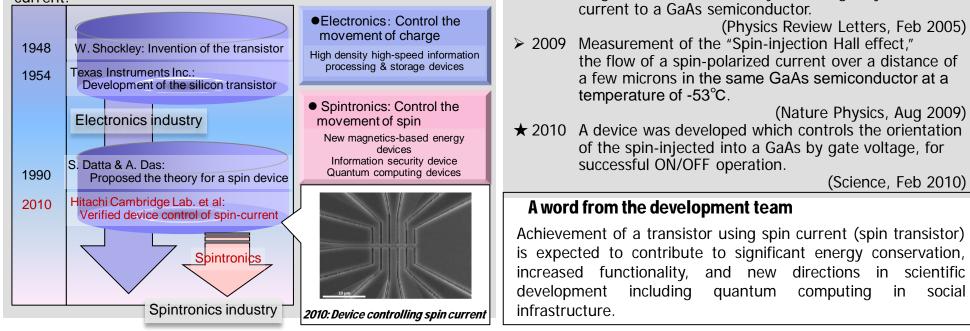
Hitachi, Ltd., web site [24th Dec 2010 News Release] http://www.hitachi.com/New/cnews/101224.html

Control & measurement of spin current, a magnetic characteristic of electrons

Spintronics achievements at the

## **Published in Science**

Sixty years after the development of transistors in the 1940s, an international research team<sup>\*</sup> formed by physicists including Joerg Wunderlich of the Hitachi Cambridge laboratory have successfully developed technology to control and measure spin current, a magnetic characteristic of electrons, in the same way as electrical current.



\*\* Hitachi Cambridge Lab., Univ. of Cambridge (U.K.), Univ. of Nottingham (U.K.), Charles University (Germany), Institute of Physics (ASCR) (Czech Republic), and Texas A&M University (U.S.A.)

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