Nikki's NOiSE

May 20, 2009

Why A Curveball Confuses Batters - Optical Illusion

Filed under: Noisiness. — Nikki @ 4:57 pm

In baseball, a curveball creates a physical effect and a perceptual puzzle. The physical effect (the curve) arises because the ball's rotation leads to a deflection in the ball's path. The perceptual puzzle arises because the deflection is actually gradual but is often perceived as an abrupt change in direction (the break). Our illusions suggest that the perceived "break" may be caused by the transition from the central visual system to the peripheral visual system. Like a curveball, the spinning disks in the illusions appear to abruptly change direction when an observer switches from foveal to peripheral viewing.

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Calendar

May 2009

M	T	W	T	F	S	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	**20**	21	22	23	24
25	26	27	28	29	30	31

« Apr

Main

Home
Noise
Blog Disclaimer

Categories:

Noisiness. (173)

Archives:

- May 2009 (6)
- April 2009 (11)
- March 2009 (5)
- February 2009 (13)
- January 2009 (11)
- December 2008 (7)
- November 2008 (17)
- October 2008 (1)
- September 2008 (16)
- August 2008 (9)
- July 2008 (11)
- June 2008 (21)
- May 2008 (11)
- April 2008 (7)
- March 2008 (11)
- February 2008 (3)
- January 2008 (7)
- December 2007 (4)
- November 2007 (2)

Search:

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Urban Exchange

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