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Falsification of listing law of eye movements

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The structural question how the six eye muscles with different insertions on the bulb and different tractive powers do co-operate with each other could not be solved by measurements. Therefore, listing gave an answer by mathematical topology (1845) and demonstrated it by a cardanic suspension. Helmholtz, Hering and others called the abstract hypothesis of listing later on a law. But this so called “law” does not cover all possible eye movements. Our model of a socket joint is a realistic alternative to listing. The consequences will be discussed.

Biography

Nadim Sradj is an Ophthalmologist and Philosopher. In 1966, he did his MD at the University of Tübingen, Germany; in 1968 he did his MA at the University of Mainz, Germany. He did his postgraduate studies at the Universities of Frankfurt, Mainz and Giessen, Germany. He has scientific publications and has given lectures in German, English, French and Arabic all over the world. He has participated in many scientific activities in Arabic countries, Argentina, Luxemburg and Russia.

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