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Review text: Textbooks on various applications of quantum theory (be it a nuclear physics or theory of quantized relativistic fields) often rely upon analogies with over-simplified systems. The role is often played by harmonic oscillator (HO). Present letter outlines, in a rather sketchy an preliminary way, an alternative. The use of the so called chiral oscillator (CO) is conjectured and supported by the possiblilities of (a) an introduction of an auxiliary variable in HO giving the two (viz., left and right) CO Lagrangians; (b) inverse combination of the two CO's (via the so called soldering technique of refs. [5]) into a single two-dimensional HO; (c) construction of invariants by the method of ref. [1], and (d) economical CO description of the Zeeman effect. Finally it is argued that the CO system finds an interesting (and, in the contemporary high-energy physics, extremely fashionable) interpretation as a certain duality-symmetric model.