

Abstract Submitted  
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**The Roberto Carlos Spiral** CHRISTOPHE CLANET, Ecole Polytechnique, France, GUILLAUME DUPEUX, ANNE LE GOFF, Ecole Polytechnique, DAVID QUERE, ESPCI — We study the motion of spinning spheres in a fluid at high Reynolds number and show that, in the “low gravity limit,” their trajectory is a spiral, the curvature of which increases exponentially. We show that this spiral was used by Roberto Carlos in soccer to score amazing goals and then discuss its importance in other ball games.

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