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Presentation "Bounce of spinning sports balls"

Tuesday 21 May 2024 16:00 (30 minutes)

Abstract: "Standard university or high-school physics teaching materials usually do not focus on bounce incident. Description of arbitrarily spinning bouncing balls, however, is an important element of sports ball motion. We can describe the bounce using a set of equations that comes from the linear and angular impulse-momentum theorems. Finally, the numerical simulation results of different balls and surfaces will be compared with experimental data, giving agreement to within centimeters."

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