

Elliptical tracks and magnetic monopoles

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In a number of studies, electric discharges in water instrumented with nuclear track detectors show a collection of tracks which have yet to be conclusively identified. The same tracks are produced in a simpler way using a brief flash of light with photographic emulsions. Using the simpler method, evidence is reported for quantized elliptical tracks in photographic emulsions with sizes expected of bound magnetic monopoles, yet *requiring* velocities greater than the speed of light, indicating particles with superluminal electric charge. Geometrical analysis using analogy with the electron indicates a bound magnetically charged particle with mass $m_m = 1.45 \times 10^{-3} \text{ eV}/c^2$ with superluminal velocities. Using the extended relativity of Recami and Mignani, m_m is the relativistic mass of a *superluminal* electron, with $m_0 = 5.11 \times 10^5 \text{ eV}/c^2$.

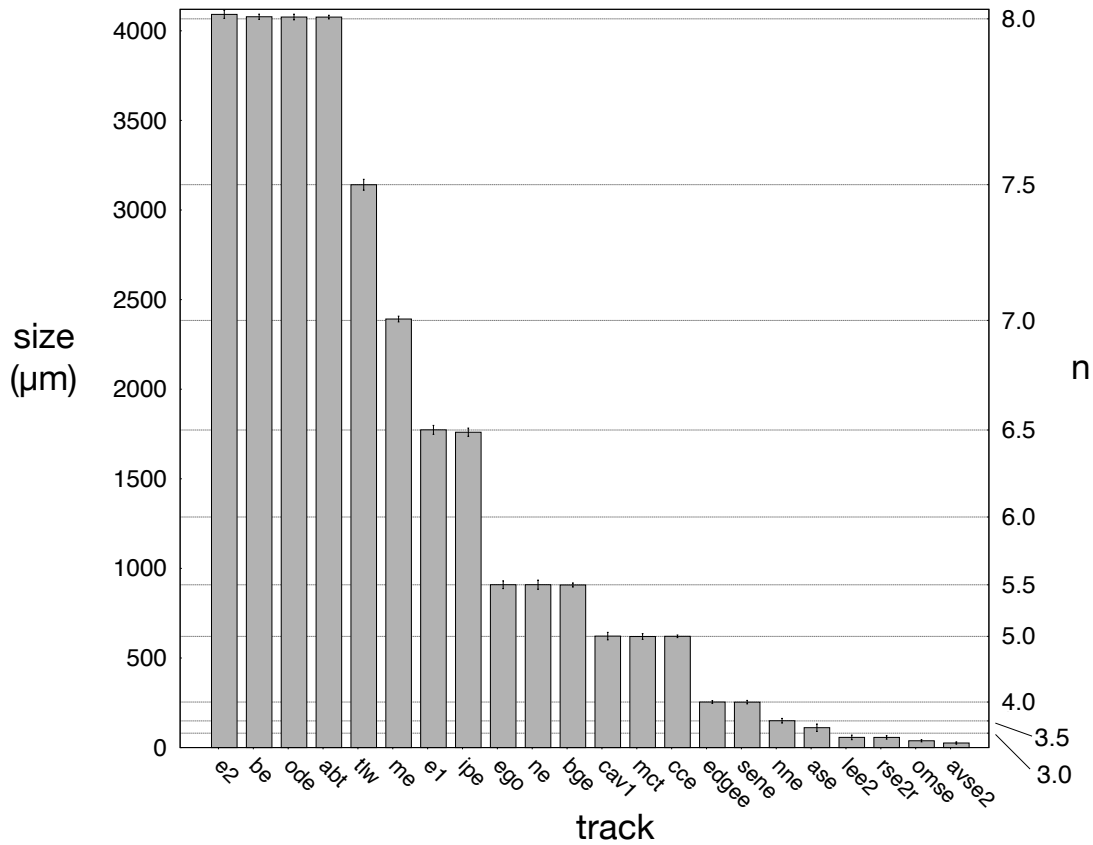


FIG. 1. Quantized ellipse semi-major axis sizes. Ellipses between $n = 8$ and $n = 3.5$ are shown to be quantized as half integer values. Ellipses less than $n=3.5$ are quantized by quarter integer values.