

# DUALISMO ONDA-CORPUSCOLO PER MOLECOLE DI C<sub>60</sub>

M. Arndt *et al.* (A. Zeilinger), Nature 401 (1999) 680

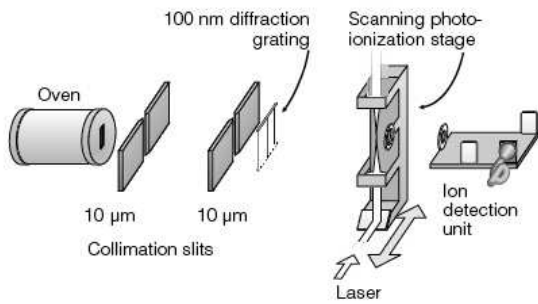
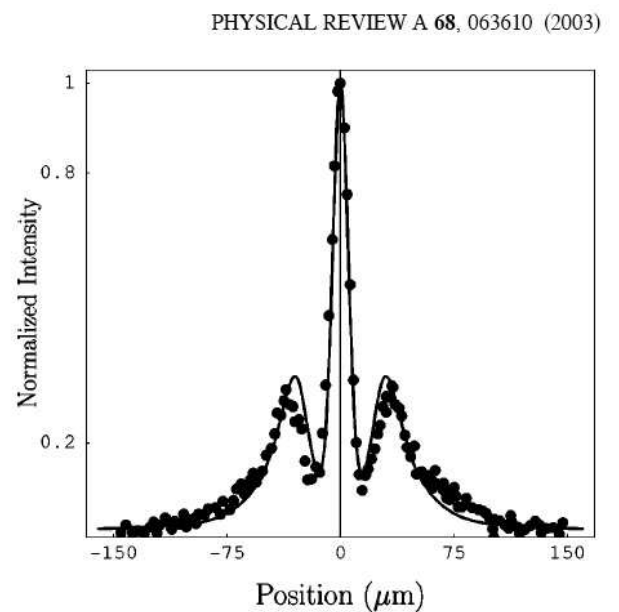
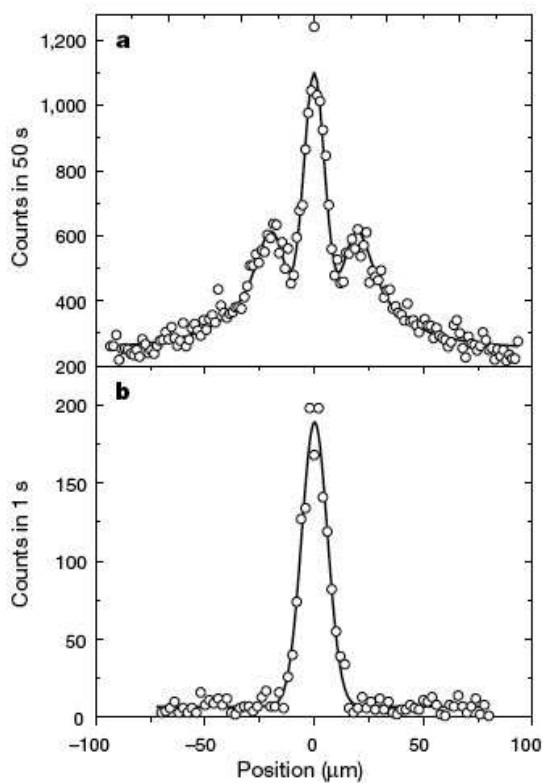


TABLE I. Physical parameters of fullerene experiments [2].

Mass of fullerene C <sub>60</sub>	$M \approx 1.2 \times 10^{-24}$ Kg
Radius of C <sub>60</sub>	$R \approx 3.5 \times 10^{-10}$ m
Temperature of C <sub>60</sub>	$\Theta_F \approx 900$ K
Environmental temperature	$\Theta_E \approx 300$ K
Mean wavelength of <sup>a</sup> C <sub>60</sub>	$\lambda \approx 2.5 \times 10^{-12}$ m
Mean time of flight <sup>a</sup>	$T \approx 6 \times 10^{-3}$ s
Grating-screen distance	$L = 1.25$ m
Collimator aperture	$a = 10^{-5}$ m
Effective slits width	$d \approx 3.6 \times 10^{-8}$ m
Grating period	$D = 10^{-7}$ m



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