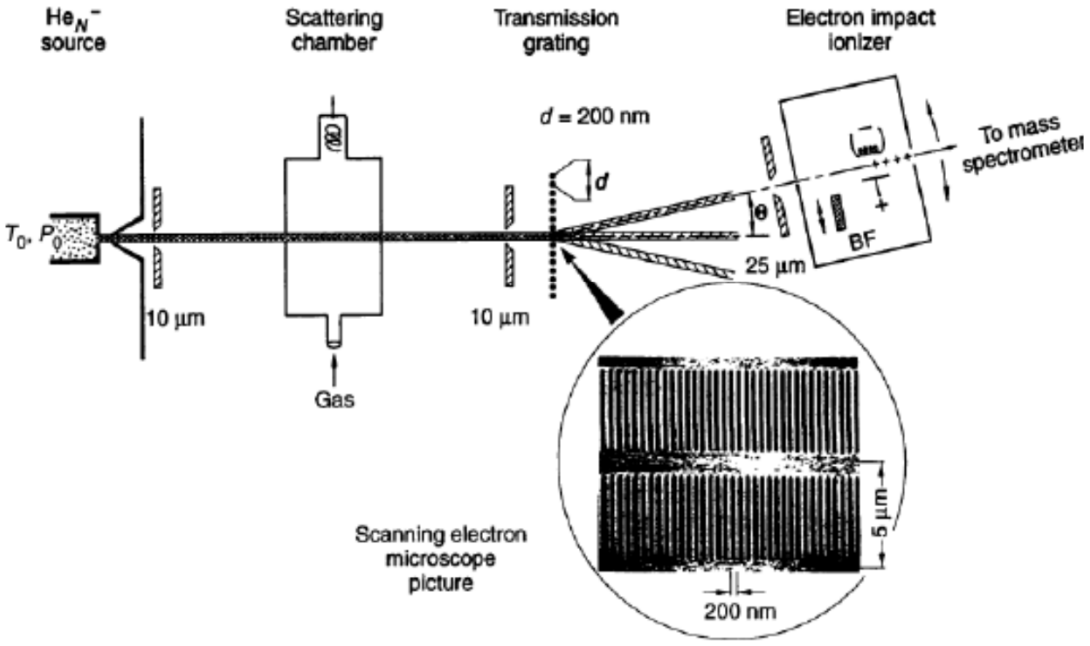
Schöllkopf + Toennies
Science 1994



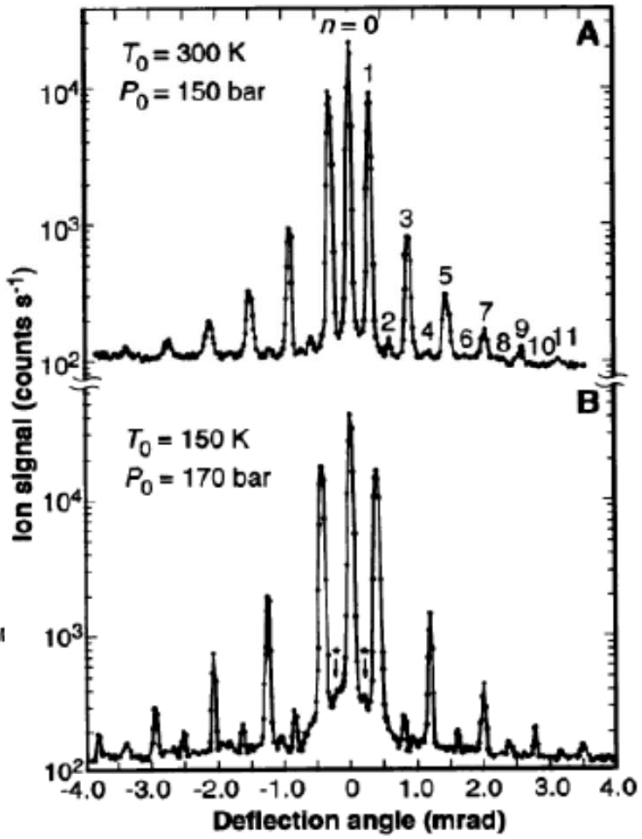
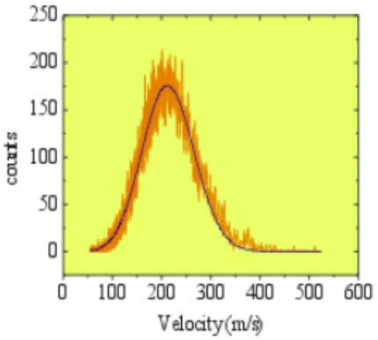


Fig. 2. Two angular distributions for He cluster beams, measured at T_0 = 300 K and P_0 = 150 bar (**A**) and at T_0 = 150 K and P_0 = 170 bar (**B**). Note that the logarithm of the He^+ signal measured in the direct in-flight mode is plotted versus the deflection angle. The numbers indicate the diffraction orders of the He atom diffraction peaks. The asterisks in (B) denote additional peaks attributable to first-order diffraction of He dimers.

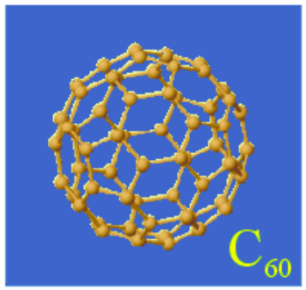
Wave–particle duality of C_{60} molecules

Markus Arndt, Olaf Nairz, Julian Vos-Andreae, Claudia Keller, Gerbrand van der Zouw & Anton Zeilinger

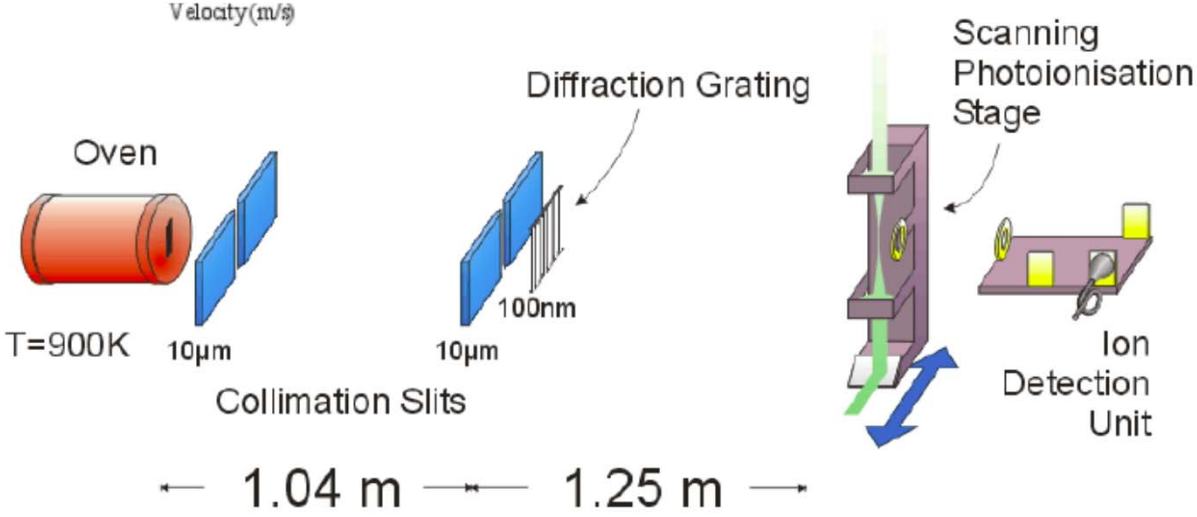
Nature, 401, 680 (1999)

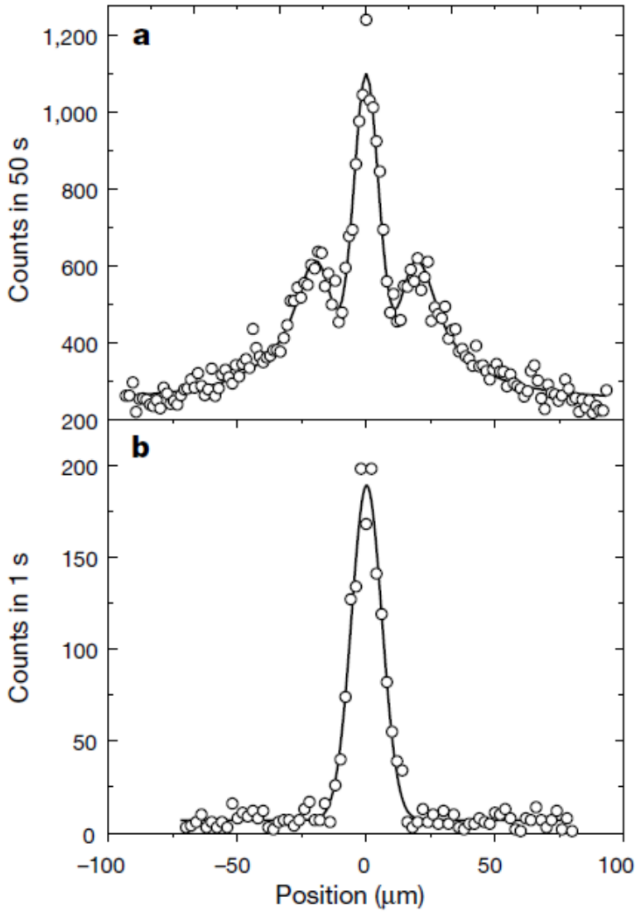


- v_{max} ~ 220 m/s
- λ (C_{60}) ~ 2,5 pm
- de-Broglie-Wellenlänge ist ~ 400 mal kleiner als der Durchmesser des Fullerens



Velocity(m/s)





Neutronen-Interferometer

http://www.teilchen.at/news/292