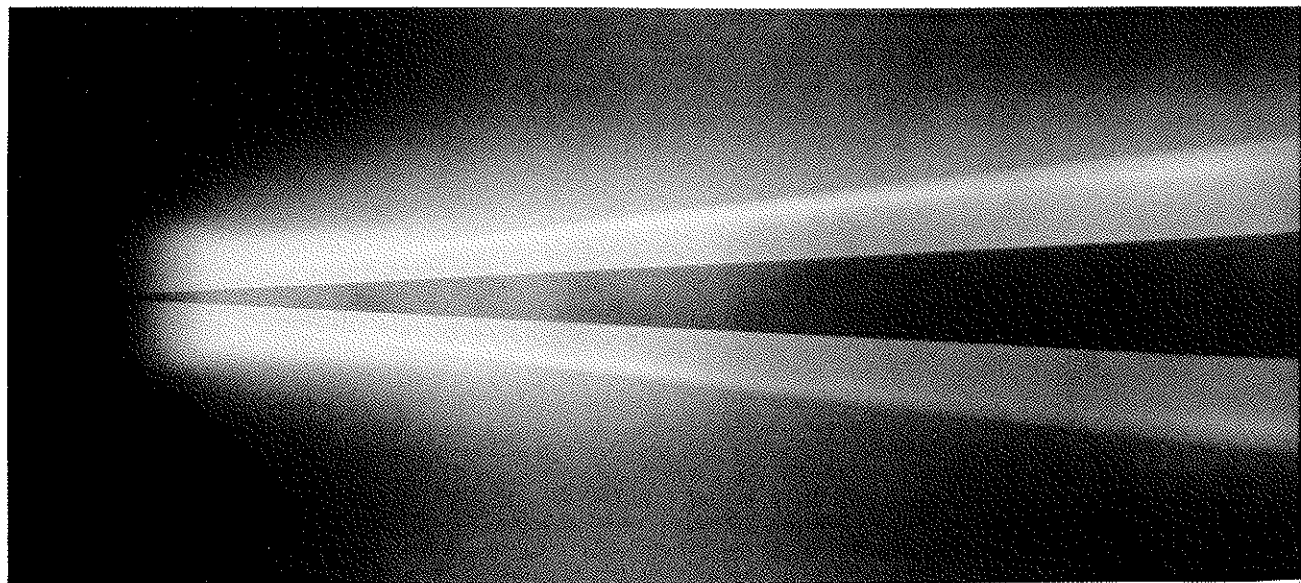


**273. Hypersonic flow past power-law bodies.** Shadowgraphs show the bow wave in air at  $M=8.8$  for bodies of revolution whose radius varies as a power of axial distance.

The exponents are  $\frac{3}{4}$ ,  $\frac{1}{2}$  (a paraboloid of revolution) and  $\frac{1}{10}$ . Freeman, Cash & Bedder 1964, courtesy of Aerodynamics Division, National Physical Laboratory



**274. Hypersonic flow past a slender cone.** A cone of  $3^\circ$  semi-vertex angle is shown by the glow-discharge method in helium at Mach number 41 and Reynolds number

560,000 based on length. In this strong-interaction regime the boundary layer is seen to extend about four-fifths the distance to the shock wave. Horstman & Kussoy 1964