

Introduction to the Theory of Thermal Neutron Scattering

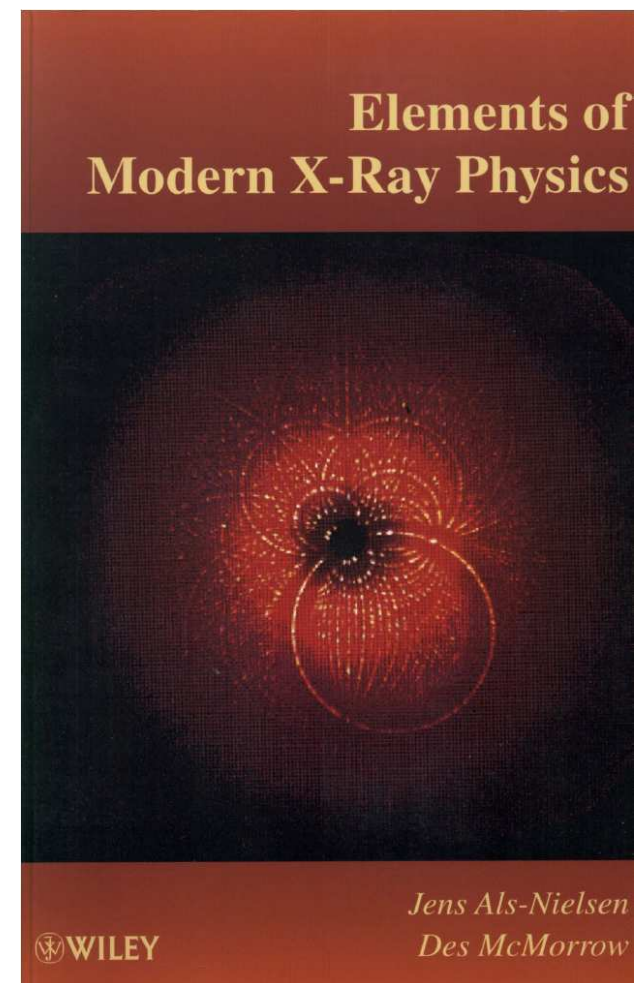
G.L. Squires

Dover Publications Inc.; New Edition (1997)

Elements of Modern X-ray Physics

Jens Als-Nielsen, Des McMorrow

John Wiley and Sons Ltd (2000)

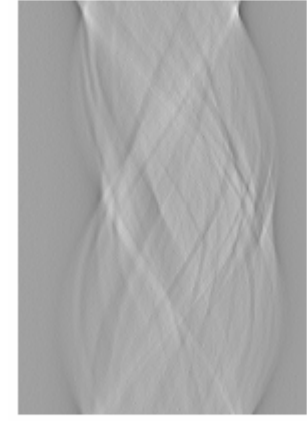
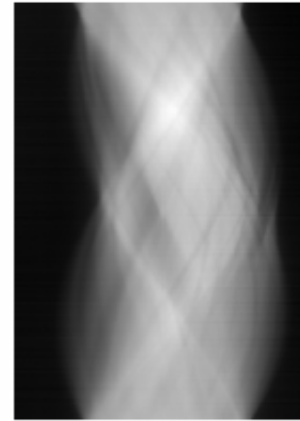
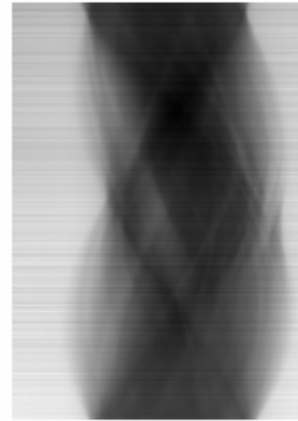


Röntgen-Tomographie

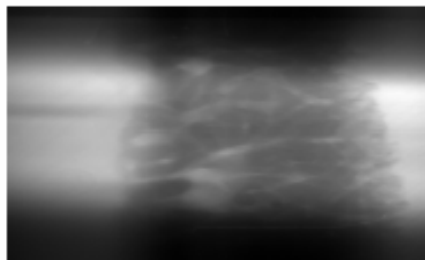


Sinogramm: jeweils eine Zeile

↑ Winkel

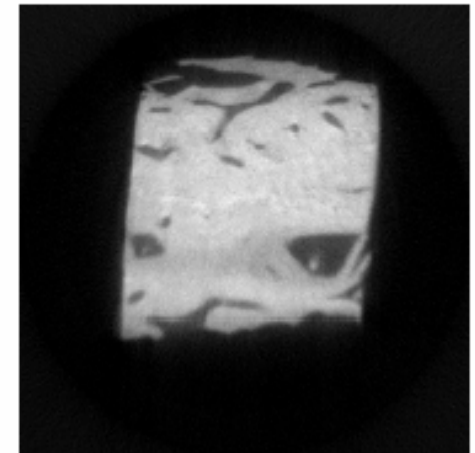


Bilder (original, korrigiert)

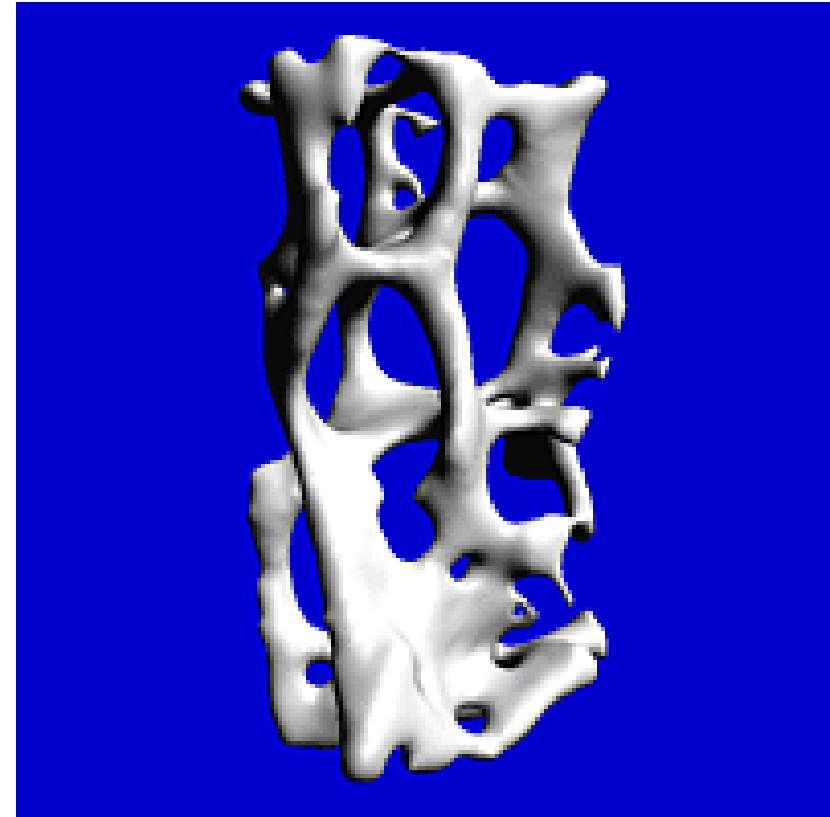
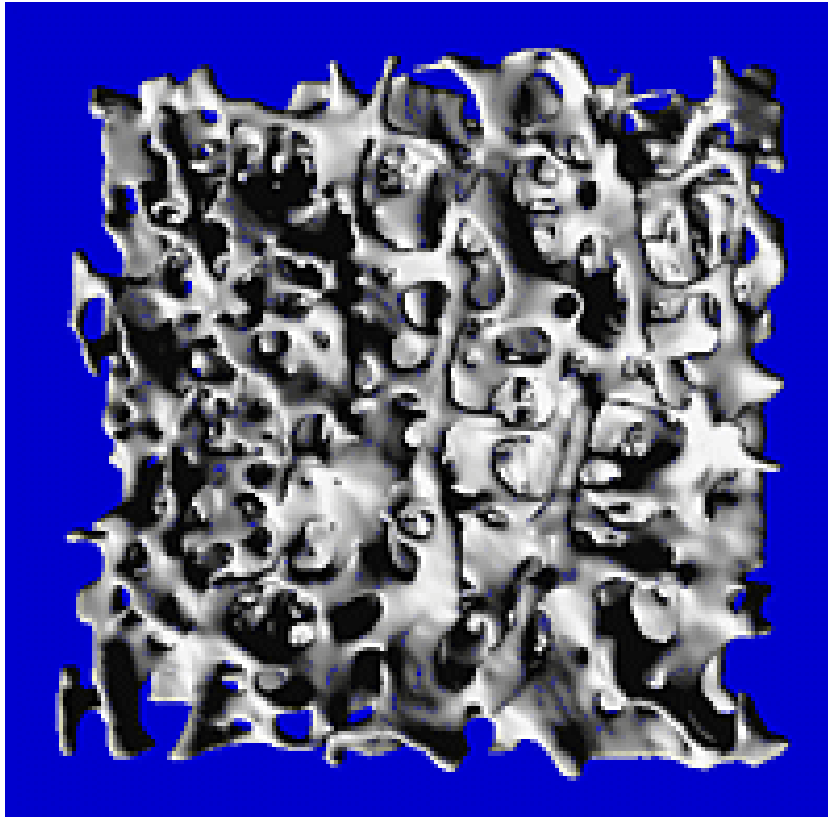


(bei einem Winkel)

Rekonstruktion



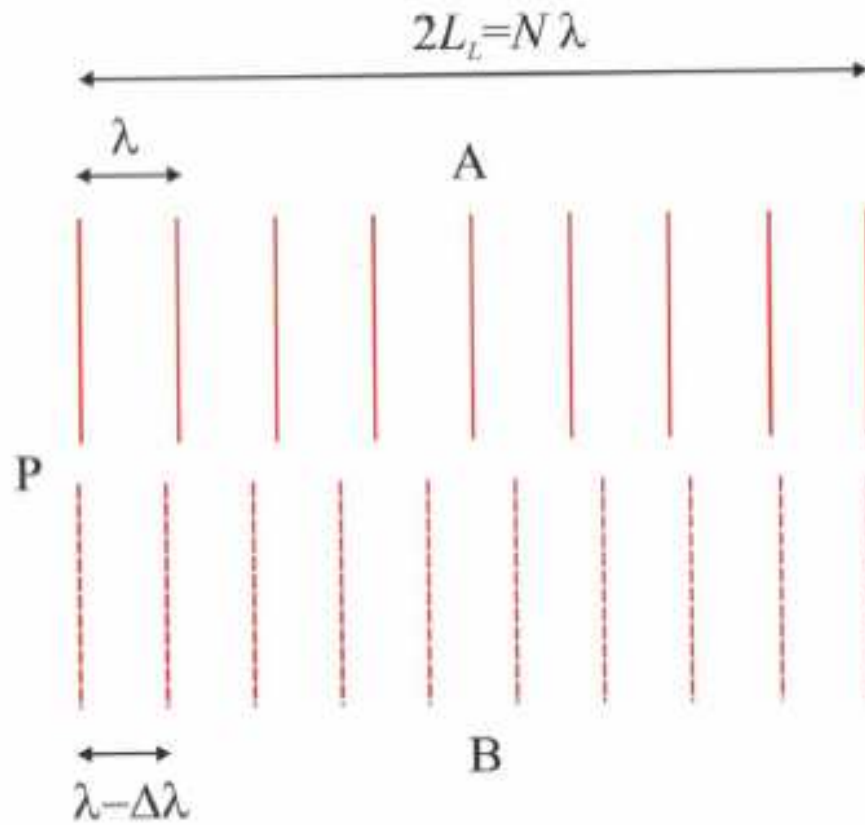
Walkknochen: *In situ* Deformation, Tomographie



lokale Information über mechanisches Versagen

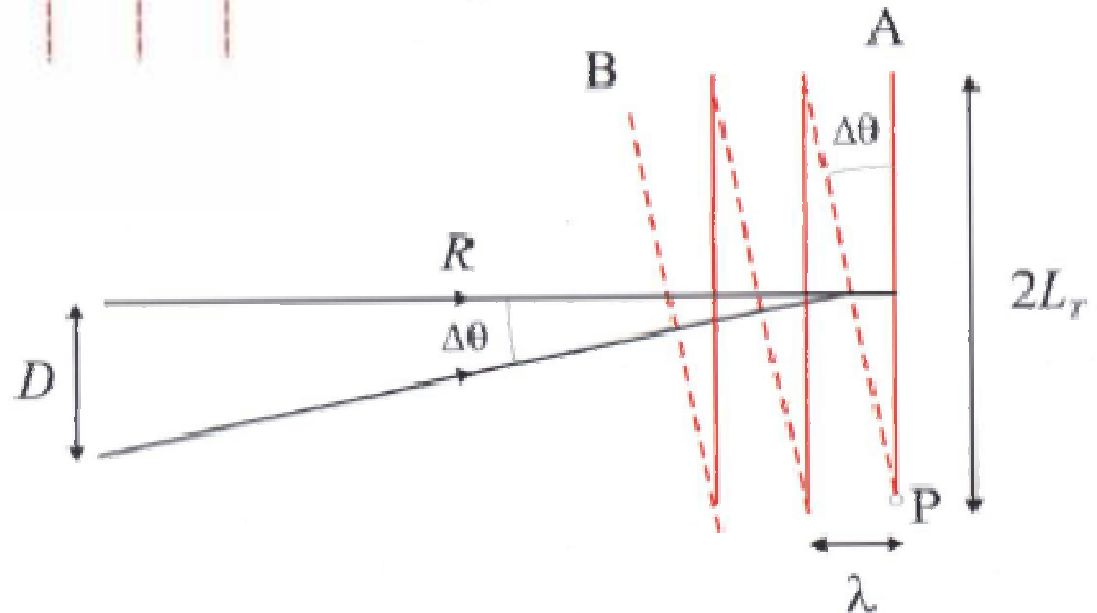
R. Müller *et al.*, *Technology and Health Care* **6**, 433-444 (1998)

Kohärenz

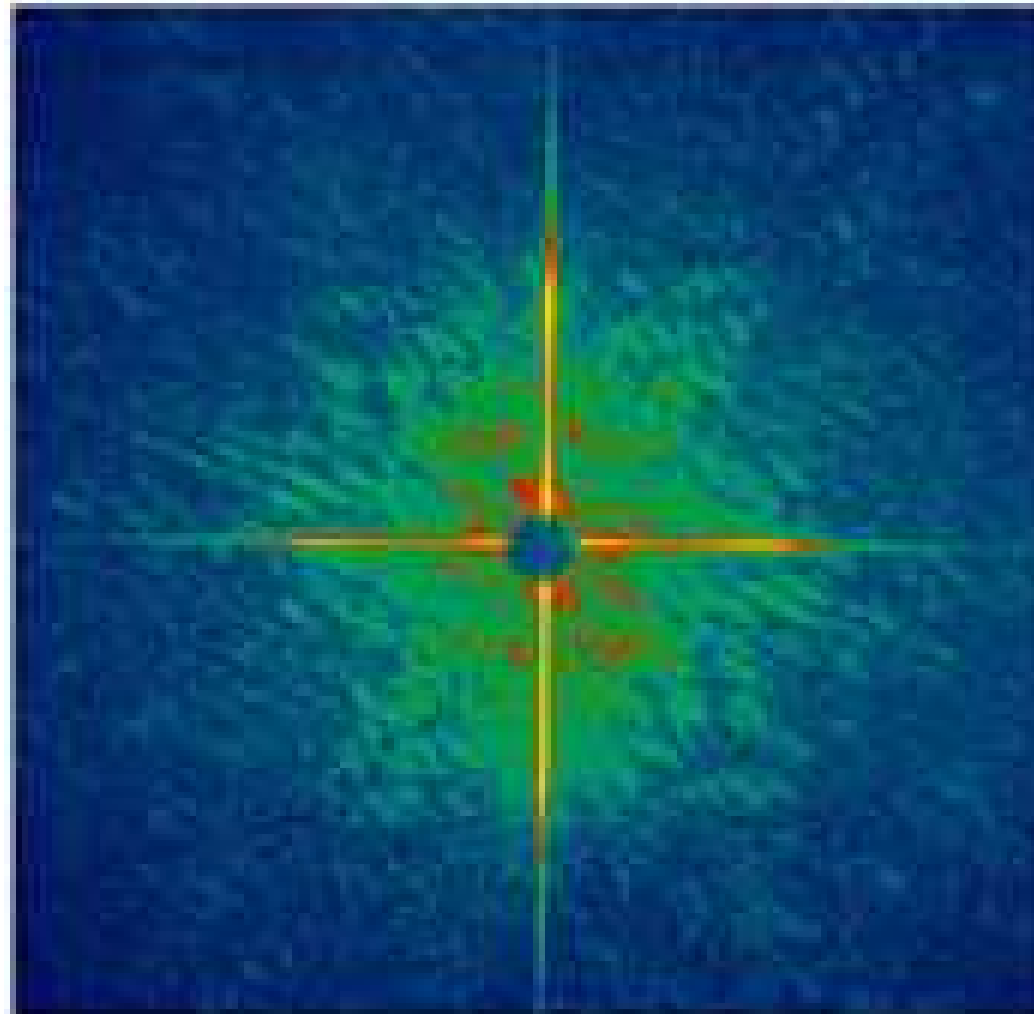


longitudinale
Kohärenzlänge

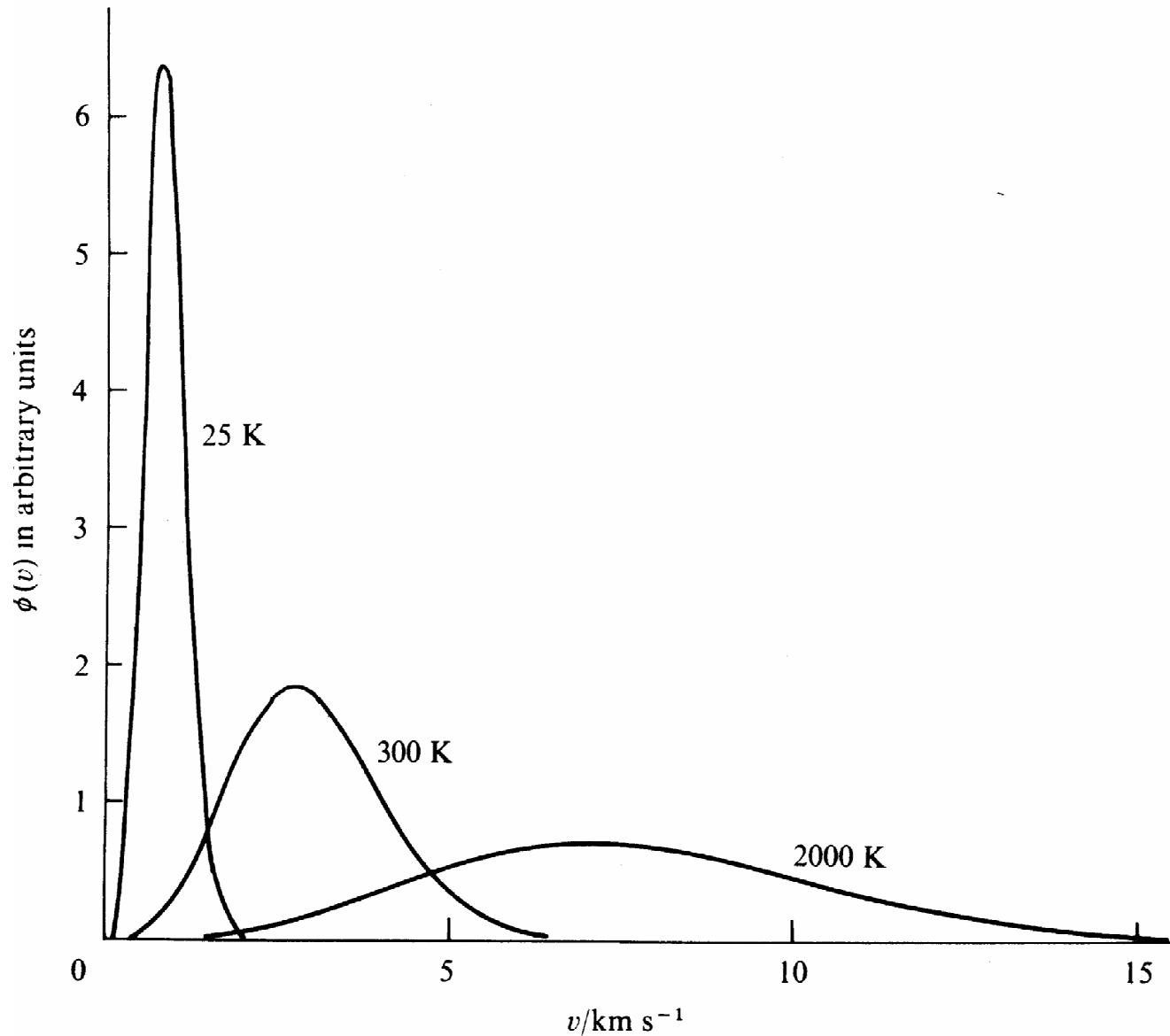
transversale
Kohärenzlänge



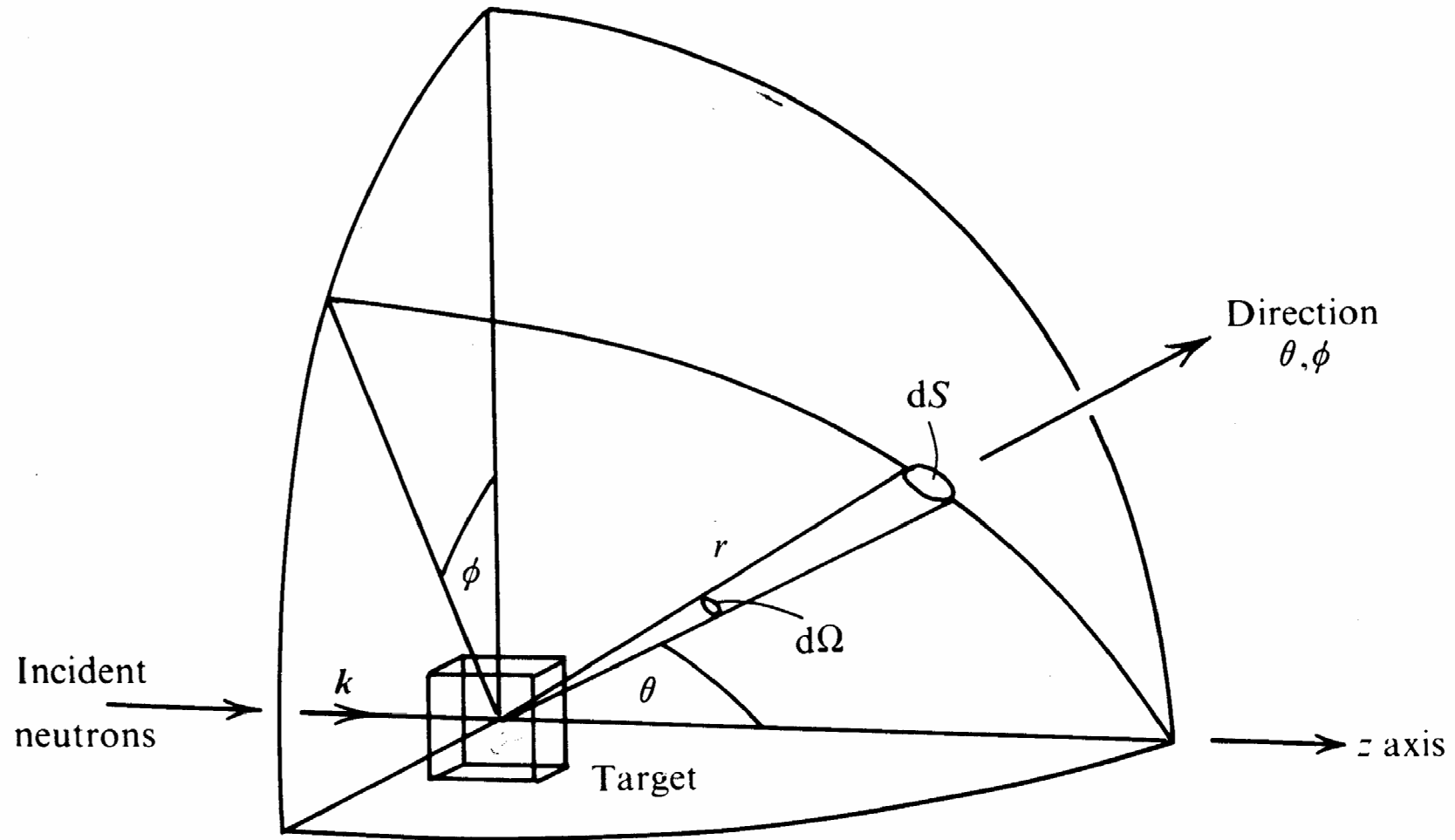
Kohärentes Imaging



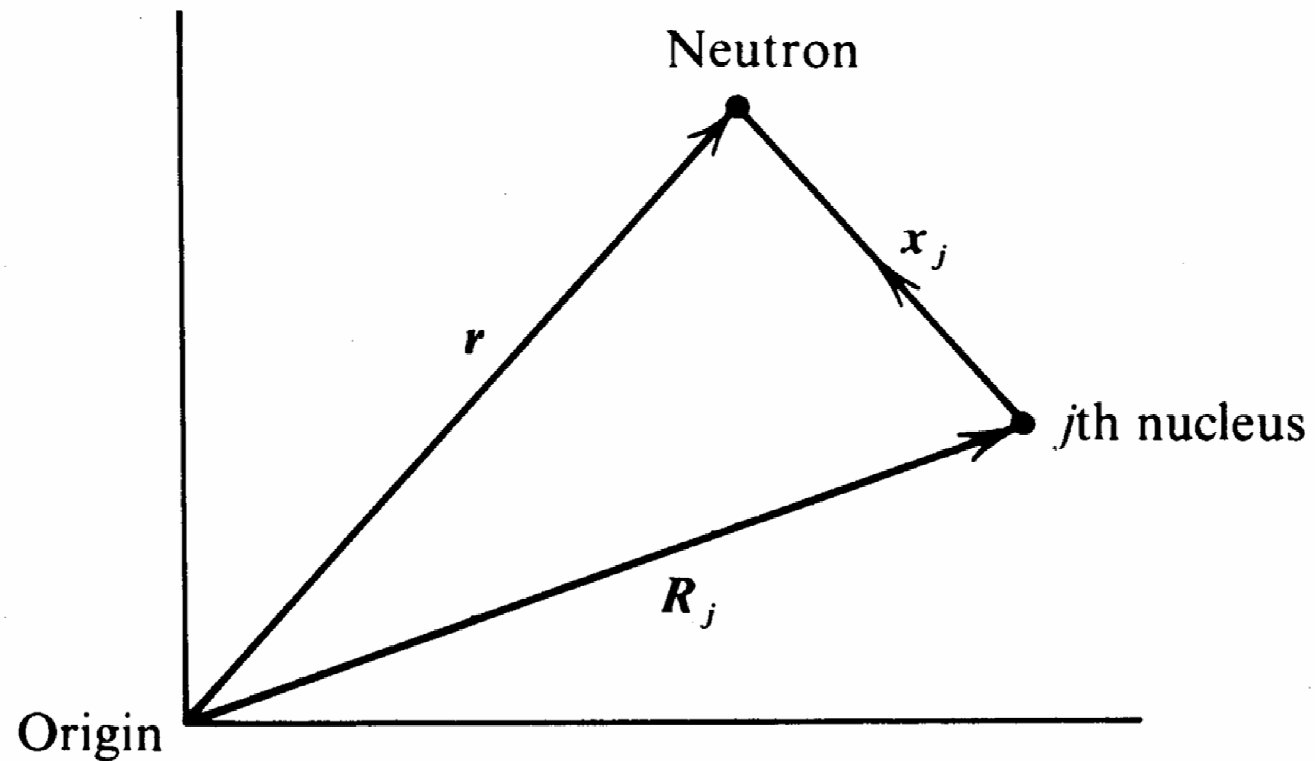
Maxwell-Verteilung für kalte, thermische und heiße Neutronen



WH: Streugeometrie



Koordinatensystem zur Streutheorie



Zur Berechnung der Zustandsdichte

