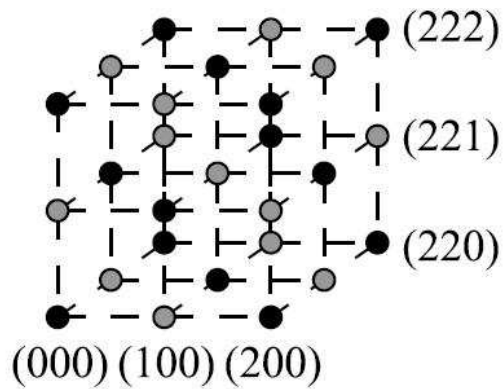


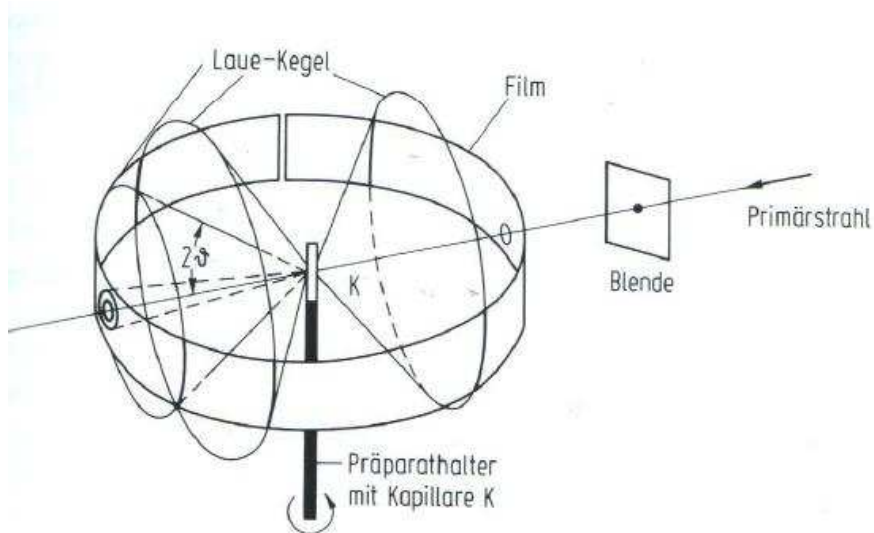
Skizzen zum Übungsblatt 4

Zu Aufgabe 3: Strukturfaktor

CSCI



Zu Aufgabe 4: Debye-Scherrer-Verfahren



i	$b[\text{mm}]$	$\alpha [\text{rad}]$	$\theta [\text{deg}]$	$\sin^2 \theta$	$(\frac{\sin \theta_i}{\sin \theta_1})^2$	$h^2 + k^2 + l^2$	hkl	$a [\text{nm}]$
1	43.40	1.51495	21.7	0.1367	-	3	111	0.3611
2	50.60	1.76627	25.3	0.1826	1.336	4	200	0.3608
3	74.40	2.59705	37.2	0.3655	2.673	8	220	0.3607
4	90.21	3.14857	45.1	0.5017	3.670	11	311	0.3610
5	95.21	3.32311	47.6	0.5453	3.989	12	222	0.3616

Mittelwert	0.36104
------------	---------