

Scienta R4000 Resolution

as a function of slit size and pass energy (E_p)

Resolution:

$$\Delta E = E_p \times \frac{S}{2 \cdot R_0}$$

R_0 is the mean radius of the analyzer (200 mm), S is the slit size in millimeters

Slit Setting (reading number)

Slit Width [mm] and Shape

E_p	900	800	700	600	500	400	300	200	100
	4(S)	2.5(S)	1.5(S)	0.8(C)	0.5(C)	0.3(C)	0.2(C)	0.1(C)	0.2(S)
10	100	62.5	37.5	20	12.5	7.5	5	2.5	5
20	200	125	75	40	25	15	10	5	10
50	500	312.5	187.5	100	62.5	37.5	25	12.5	25
100	1000	625	375	200	125	75	50	25	50
200	2000	1250	750	400	250	150	100	50	100
500	5000	3125	1875	1000	625	375	250	125	250