

PSE „NMR-Spektroskopie“

Gruppen																		18																													
1																	13	14	15	16	17																										
¹ H, ² H H																									³ He He	1																					
⁷ Li Li	⁹ Be Be																	¹¹ B B	¹³ C C	¹⁵ N N	¹⁷ O O	¹⁹ F F	²¹ Ne Ne	2																							
²³ Na Na	²⁵ Mg Mg																	²⁷ Al Al	²⁹ Si Si	³¹ P P	³³ S S	³⁵ Cl Cl	Ar	3																							
³⁹ K K	⁴³ Ca Ca	⁴⁵ Sc Sc	⁴⁹ Ti Ti	⁵⁰ V V	⁵³ Cr Cr	⁵⁵ Mn Mn	⁵⁷ Fe Fe	⁵⁹ Co Co	⁶¹ Ni Ni	⁶³ Cu Cu	⁶⁷ Zn Zn	⁷¹ Ga Ga	⁷³ Ge Ge	⁷⁵ As As	⁷⁷ Se Se	⁸¹ Br Br	⁸³ Kr Kr	4																													
⁸⁷ Rb Rb	⁸⁷ Sr Sr	⁸⁹ Y Y	⁹¹ Zr Zr	⁹³ Nb Nb	⁹⁵ Mo Mo	Tc	¹⁰¹ Ru Ru	¹⁰³ Rh Rh	¹⁰⁵ Pd Pd	¹⁰⁷ Ag Ag	¹¹³ Cd Cd	¹¹⁵ In In	¹¹⁹ Sn Sn	¹²¹ Sb Sb	¹²⁵ Te Te	¹²⁷ I I	¹²⁹ Xe Xe	5																													
¹³³ Cs Cs	¹³⁷ Ba Ba	¹³⁸ La La	¹⁷⁹ Hf Hf	¹⁸¹ Ta Ta	¹⁸³ W W	¹⁸⁷ Re Re	¹⁸⁷ Os Os	¹⁹³ Ir Ir	¹⁹⁵ Pt Pt	¹⁹⁷ Au Au	¹⁹⁹ Hg Hg	²⁰⁵ Tl Tl	²⁰⁷ Pb Pb	²⁰⁹ Bi Bi	Po	At	Rn	6																													
Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv	Ts	Og	7																													
			<table border="1"> <tr> <td>Ce</td> <td>¹⁴¹Pr Pr</td> <td>¹⁴³Nd Nd</td> <td>Pm</td> <td>¹⁴⁷Sm Sm</td> <td>¹⁵³Eu Eu</td> <td>¹⁵⁷Gd Gd</td> <td>¹⁵⁹Tb Tb</td> <td>¹⁶³Dy Dy</td> <td>¹⁶⁵Ho Ho</td> <td>¹⁶⁷Er Er</td> <td>¹⁶⁹Tm Tm</td> <td>¹⁷¹Yb Yb</td> <td>¹⁷⁵Lu Lu</td> <td>6</td> </tr> <tr> <td>Th</td> <td>Pa</td> <td>²³⁵U U</td> <td>Np</td> <td>Pu</td> <td>Am</td> <td>Cm</td> <td>Bk</td> <td>Cf</td> <td>Es</td> <td>Fm</td> <td>Md</td> <td>No</td> <td>Lr</td> <td>7</td> </tr> </table>															Ce	¹⁴¹ Pr Pr	¹⁴³ Nd Nd	Pm	¹⁴⁷ Sm Sm	¹⁵³ Eu Eu	¹⁵⁷ Gd Gd	¹⁵⁹ Tb Tb	¹⁶³ Dy Dy	¹⁶⁵ Ho Ho	¹⁶⁷ Er Er	¹⁶⁹ Tm Tm	¹⁷¹ Yb Yb	¹⁷⁵ Lu Lu	6	Th	Pa	²³⁵ U U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	7
Ce	¹⁴¹ Pr Pr	¹⁴³ Nd Nd	Pm	¹⁴⁷ Sm Sm	¹⁵³ Eu Eu	¹⁵⁷ Gd Gd	¹⁵⁹ Tb Tb	¹⁶³ Dy Dy	¹⁶⁵ Ho Ho	¹⁶⁷ Er Er	¹⁶⁹ Tm Tm	¹⁷¹ Yb Yb	¹⁷⁵ Lu Lu	6																																	
Th	Pa	²³⁵ U U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	7																																	

Kerne mit NMR-aktiven Isotop
Kerne mit I = 1/2 Isotop