

Pa: Proactinium  
 Lr: Lawrencium  
 Mt: Meitnerium  
 Ds: Darmstadtium

Energietermschema

Name N  $N_{max} (2n^2)$

**5f<sup>1</sup>-5f<sup>14</sup>**  
**Actinide**  
 oder: 6d <sub>104</sub>Ku-<sub>109</sub>Mt  
 5f <sub>90</sub>Th-<sub>103</sub>Lr  
 6d <sub>89</sub>Ac



103Lr - 110Ds  
 -----  
91Ta - 102No  
 -----  
89Ac - 90Th  
 -----  
87Fr - 88Ra

7p  
 6d  
 5f  
 6d  
 7s



Q 32 98

**Übergangselemente**

**Lanthanide**  
 (seltene Erden)  
**4f<sup>1</sup>-4f<sup>14</sup>**  
 oder: bis <sub>71</sub>Lu  
 5d ab <sub>72</sub>Hf

81Tl - 86Rn  
 -----  
71Lu - 80Hg  
 -----  
58Ce - 70Yb  
 -----  
57La  
 -----  
55Cs - 58Ba

6p  
 5d  
 4f  
 5d  
 6s



P 32 72

**Übergangselemente**

**4d<sup>1</sup>-4d<sup>10</sup>**

49In - 54Xe  
 -----  
39Y - 48Cd  
 -----  
37Rb - 38Sr

5p  
 4d  
 5s



O 18 50

**Übergangselemente**

**teilw. Ferromagnete**

**3d<sup>1</sup>-3d<sup>10</sup>**

31Ga - 36Kr  
 -----  
21Sc - 30Zn  
 -----  
19K - 20Ca

4p  
 3d  
 4s



N 18 32

**Edelgase**

**Alkali**

13Al - 18Ar  
 -----  
11Na - 12Mg

3p  
 3s



M 8 18

5B - 10Ne  
 -----  
3Li - 4Be

2p  
 2s



L 8 8

1H - 2He

1s

K 2 2