

# 10幂・大数・小数の表

|                   |                | SI        | 中國  | 台灣 |   |
|-------------------|----------------|-----------|-----|----|---|
| 10 <sup>-1</sup>  | 分 ぶ            | d deci    | 分   | 分  |   |
| 10 <sup>-2</sup>  | 厘/釐 りん         | c centi   | 厘   | 厘  |   |
| 10 <sup>-3</sup>  | 毛/毫 もう         | m milli   | 毫   | 毫  |   |
| 10 <sup>-4</sup>  | 糸/絲 し          |           |     |    |   |
| 10 <sup>-5</sup>  | 忽 こつ           |           |     |    |   |
| 10 <sup>-6</sup>  | 微 び            | μ/u micro | 微   | 微  |   |
| 10 <sup>-7</sup>  | 纖 せん           |           |     |    |   |
| 10 <sup>-8</sup>  | 沙 しゃ           |           |     |    | $m_p = 2.176\,470(51) \times 10^{-8} \text{ kg}$          |
| 10 <sup>-9</sup>  | 塵 じん           | n nano    | 纳诺  | 奈  |   |
| 10 <sup>-10</sup> | 埃 あい           |           |     |    | $a_0 = 5.291\,772\,109\,03(80) \times 10^{-11} \text{ m}$ |
| 10 <sup>-11</sup> | 渺 びょう          |           |     |    | ↳ ボーア半径   |
| 10 <sup>-12</sup> | 漠 ぼく           | p pico    | 皮可  | 皮  |   |
| 10 <sup>-13</sup> | 模糊 もこ          |           |     |    |   |
| 10 <sup>-14</sup> | 逡巡 しゆんじゆん      |           |     |    |   |
| 10 <sup>-15</sup> | 須臾 しゆゆ         | f femto   | 飞母托 | 飛  |   |
| 10 <sup>-16</sup> | 瞬息 しゆんそく       |           |     |    |   |
| 10 <sup>-17</sup> | 彈指 だんし         |           |     |    |   |
| 10 <sup>-18</sup> | 刹那 せつな         | a atto    | 阿托  | 阿  |   |
| 10 <sup>-19</sup> | 六德 りつとく        |           |     |    | $e = 1.602\,176\,634 \times 10^{-19} \text{ C}$           |
| 10 <sup>-20</sup> | 虚空 こくう         |           |     |    |   |
| 10 <sup>-21</sup> | 清浄 しょうじょう      | z zepto   | 仄普托 | 介  |   |
| 10 <sup>-22</sup> | 阿頼耶 あらや        |           |     |    |   |
| 10 <sup>-23</sup> | 阿摩羅 あまら        |           |     |    | $k = 1.380\,649 \times 10^{-23} \text{ J K}^{-1}$         |
| 10 <sup>-24</sup> | 涅槃寂静 ねはんじゃくじょう | y yocto   | 么科托 | 攸  |   |
| 10 <sup>-25</sup> |                |           |     |    |   |
| 10 <sup>-26</sup> |                |           |     |    |   |
| 10 <sup>-27</sup> |                | r ronto   |     |    |   |
| 10 <sup>-28</sup> |                |           |     |    |   |
| 10 <sup>-29</sup> |                |           |     |    |   |
| 10 <sup>-30</sup> |                | q quecto  |     |    |   |
| 10 <sup>-31</sup> |                |           |     |    |   |
| 10 <sup>-32</sup> |                |           |     |    |   |
| 10 <sup>-33</sup> |                |           |     |    |   |
| 10 <sup>-34</sup> |                |           |     |    | $h = 6.626\,070\,15 \times 10^{-34} \text{ J s}$          |
| 10 <sup>-35</sup> |                |           |     |    | $l_p = 1.616\,229(38) \times 10^{-35} \text{ m}$          |
| 10 <sup>-36</sup> |                |           |     |    |   |
| 10 <sup>-37</sup> |                |           |     |    |   |
| 10 <sup>-38</sup> |                |           |     |    |   |
| 10 <sup>-39</sup> |                |           |     |    |   |
| 10 <sup>-40</sup> |                |           |     |    |   |
| 10 <sup>-41</sup> |                |           |     |    |   |
| 10 <sup>-42</sup> |                |           |     |    |   |
| 10 <sup>-43</sup> |                |           |     |    |   |
| 10 <sup>-44</sup> |                |           |     |    | $t_p = 5.391\,16(13) \times 10^{-44} \text{ s}$           |

## SIの定義定数

|                  |               |                       |
|------------------|---------------|-----------------------|
| $\Delta\nu_{Cs}$ | セシウムの超微細遷移周波数 | [Hz]                  |
| $c$              | 真空中の光の速さ      | [m s <sup>-1</sup> ]  |
| $h$              | プランク定数        | [J s]                 |
| $e$              | 電気素量          | [C]                   |
| $k$              | ボルツマン定数       | [J K <sup>-1</sup> ]  |
| $N_A$            | アボガドロ定数       | [mol <sup>-1</sup> ]  |
| $K_{cd}$         | 視感効果度         | [lm W <sup>-1</sup> ] |

## プランク単位

|       |           |       |
|-------|-----------|-------|
| $t_P$ | プランク時間    | [s]   |
| $l_P$ | プランク長     | [m]   |
| $m_P$ | プランク質量    | [kg]  |
| $T_P$ | プランク温度    | [K]   |
| $E_P$ | プランクエネルギー | [GeV] |

## 2の幂

|                  |   |
|------------------|---|
| 2 <sup>8</sup>   | 256   |
| 2 <sup>12</sup>  | 4,096   |
| 2 <sup>16</sup>  | 65,536  |
| 2 <sup>24</sup>  | 16,777,216  |
| 2 <sup>32</sup>  | 4,294,967,296   |
| 2 <sup>48</sup>  | 281,474,976,710,656   |
| 2 <sup>64</sup>  | 18,446,744,073,709,551,616  |
| 2 <sup>96</sup>  | 79,228,162,514,264,337,593,543,950,336  |
| 2 <sup>128</sup> | 340,282,366,920,938,463,463,374,607,431,768,211,456   |
| 2 <sup>192</sup> | 6,277,101,735,386,680,763,835,789,423,207,666,416,102,355,444,464,034,512,896                           |
| 2 <sup>256</sup> | 115,792,089,237,316,195,423,570,985,008,687,907,853,269,984,665,640,564,039,457,584,007,913,129,639,936 |

|                  | 塵劫記           | short scale         | SI       | 中國  | 台灣 | インド                            |   |
|------------------|---------------|---------------------|----------|-----|----|--------------------------------|---|
| 10 <sup>1</sup>  | 十 じゅう         | ten                 | da deca  | 十   | 十  | das                            |   |
| 10 <sup>2</sup>  | 百 ひゃく         | hundred             | h hecto  | 百   | 百  | sau                            | $K_{cd} = 683 \text{ lm W}^{-1}$                                  |
| 10 <sup>3</sup>  | 千 せん          | thousand            | k kilo   | 千   | 千  | sahasr/hazaar                  | 2 <sup>10</sup> = 1_024   |
| 10 <sup>4</sup>  | 万 まん          |                     |          |     |    | my myria (metric system ~1935) |   |
| 10 <sup>5</sup>  |               |                     |          |     |    | lakh                           | 洛叉 (華嚴經)  |
| 10 <sup>6</sup>  |               | million             | M mega   | 兆   | 百萬 |                                | 2 <sup>20</sup> = 1_048_576                                       |
| 10 <sup>7</sup>  |               |                     |          |     |    | crore                          | 俱胝 (華嚴經)  |
| 10 <sup>8</sup>  | 億 おく          |                     |          |     |    |                                | $c = 299\,792\,458 \text{ m/s}$                                   |
| 10 <sup>9</sup>  |               | billion             | G giga   | 吉咖  | 吉  | arawb                          | $\Delta\nu_{Cs} = 9\,192\,631\,770 \text{ Hz}$ 2 <sup>32</sup>    |
| 10 <sup>10</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>11</sup> |               |                     |          |     |    | kharawb                        | 1 au = 149 597 870 700 m (天文単位)                                   |
| 10 <sup>12</sup> | 兆 ちよう         | trillion            | T tera   | 太拉  | 兆  |                                | 2 <sup>40</sup> = 1_099_511_627_776                               |
| 10 <sup>13</sup> |               |                     |          |     |    | neel                           | 阿庾多 (華嚴經)   |
| 10 <sup>14</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>15</sup> |               | quadrillion         | P peta   | 拍它  | 拍  | padma                          | 2 <sup>53</sup> = 9_007_199_254_740_992                           |
| 10 <sup>16</sup> | 京 けい/きよう      |                     |          |     |    |                                | 2 <sup>56</sup> = 72_057_594_037_927_940                          |
| 10 <sup>17</sup> |               |                     |          |     |    | shankh                         | $e^{(\pi\sqrt{163})} \approx 262\,537\,412\,640\,768\,744$        |
| 10 <sup>18</sup> |               | quintillion         | E exa    | 艾可萨 | 艾  |                                |   |
| 10 <sup>19</sup> |               |                     |          |     |    | mahashankh                     | $E_p = 1.220\,910(29) \times 10^{19} \text{ GeV}$ 2 <sup>64</sup> |
| 10 <sup>20</sup> | 垓 がい          |                     |          |     |    |                                |   |
| 10 <sup>21</sup> |               | sextillion          | Z zetta  | 泽它  | 皆  |                                |   |
| 10 <sup>22</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>23</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>24</sup> | 穄/秭 じょ/し      | septillion          | Y yotta  | 尧它  | 佑  |                                | $N_A = 6.022\,140\,76 \times 10^{23} \text{ mol}^{-1}$            |
| 10 <sup>25</sup> |               |                     |          |     |    |                                | 2 <sup>80</sup> = 1.2089258196146292e+24                          |
| 10 <sup>26</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>27</sup> |               | octillion           | R ronna  |     |    |                                |   |
| 10 <sup>28</sup> | 穰 じよう         |                     |          |     |    |                                | 那由他 (華嚴經) 2 <sup>96</sup>   |
| 10 <sup>29</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>30</sup> |               | nonillion           | Q quecca |     |    |                                |   |
| 10 <sup>31</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>32</sup> | 溝 こう          |                     |          |     |    |                                | 2 <sup>103</sup> = 1.0141204801825835e+31                         |
| 10 <sup>33</sup> |               | decillion           |          |     |    |                                | $T_p = 1.416\,808(33) \times 10^{32} \text{ K}$                   |
| 10 <sup>34</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>35</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>36</sup> | 澗 かん          | undecillion         |          |     |    |                                |   |
| 10 <sup>37</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>38</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>39</sup> |               | duodecillion        |          |     |    |                                | 2 <sup>128</sup> = 3.402823669209385e+38                          |
| 10 <sup>40</sup> | 正 せい          |                     |          |     |    |                                |   |
| 10 <sup>41</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>42</sup> |               | tredecillion        |          |     |    |                                |   |
| 10 <sup>43</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>44</sup> | 載 さい          | quattuordecillion   |          |     |    |                                |   |
| 10 <sup>45</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>46</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>47</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>48</sup> | 極 ごく          | quintodecillion     |          |     |    |                                |   |
| 10 <sup>49</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>50</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>51</sup> |               | sexdecillion        |          |     |    |                                |   |
| 10 <sup>52</sup> | 恒河沙 ごうがしゃ     |                     |          |     |    |                                |   |
| 10 <sup>53</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>54</sup> |               | septendecillion     |          |     |    |                                |   |
| 10 <sup>55</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>56</sup> | 阿僧祇 あそうぎ      | octodecillion       |          |     |    |                                | 頻波羅 (華嚴經)   |
| 10 <sup>57</sup> |               |                     |          |     |    |                                | 2 <sup>192</sup> = 6.277101735386681e+57                          |
| 10 <sup>58</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>59</sup> |               |                     |          |     |    |                                | 2 <sup>196</sup> = 1.004336277661869e+59                          |
| 10 <sup>60</sup> | 那由他 なゆた       | novendecillion      |          |     |    |                                |   |
| 10 <sup>61</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>62</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>63</sup> |               | vigintillion        |          |     |    |                                |   |
| 10 <sup>64</sup> | 不可思議 ふかしぎ     |                     |          |     |    |                                |   |
| 10 <sup>65</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>66</sup> |               | unvigintillion      |          |     |    |                                |   |
| 10 <sup>67</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>68</sup> | 無量大数 むりょうたいすう |                     |          |     |    |                                | 52! = 8.065817517094388×10 <sup>67</sup>                          |
| 10 <sup>69</sup> |               | duovigintillion     |          |     |    |                                | ↳ ランプの順列の総数   |
| 10 <sup>70</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>71</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>72</sup> |               | trevigintillion     |          |     |    |                                |   |
| 10 <sup>73</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>74</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>75</sup> |               | quattuovigintillion |          |     |    |                                |   |
| 10 <sup>76</sup> |               |                     |          |     |    |                                |   |
| 10 <sup>77</sup> |               |                     |          |     |    |                                | 2 <sup>256</sup> = 1.157920892373162e+77                          |