

$$\therefore P(t) = \frac{1}{\sqrt{2\pi}} \left(t - \frac{t^3}{1! \cdot 2 \cdot 3} + \frac{t^5}{2! \cdot 2^5} - \frac{t^7}{3! \cdot 2^7} + \dots \right) \dots \textcircled{1}$$

ところで、この()内の交項級数は、条件Aをみたしているであろうか。もし、みたしていれば、項打ち切りによる誤差の評価がなされる。

()内の交項級数の第n項と第(n+1)項とをそれぞれ U_n 、 U_{n+1} とすれば、

$$\frac{U_n}{U_{n+1}} = \frac{t^{2n-1}}{(n-1)! 2^{n-1} (2n-1)} \times \frac{n! 2^n (2n+1)}{t^{2n+1}}$$

$$= \frac{2n(2n+1)}{t^2 (2n-1)}$$

$$\therefore \frac{U_n}{U_{n+1}} = \frac{2n(2n+1)}{t^2 (2n-1)} \dots \textcircled{2}$$

ここで、 t は高々4ぐらいまでの値であるから、 n をある程度大にすれば、②の右辺を1より大にすることができる。実際、

$$\left. \begin{aligned} t=1, 2 \text{ のときは } n \geq 1 \text{ で} \\ t=3 \text{ のときは } n \geq 4 \text{ で} \\ t=4 \text{ のときは } n \geq 7 \text{ で} \end{aligned} \right\} \dots \textcircled{3}$$

②の右辺は1より大になり、条件Aをみたすことがわかる。したがって、これらの項以上までの和を取れば、項打ち切り誤差の評価ができるから、あらかじめ項打ち切り誤差の大きさ ϵ を決めておけば、その大きさが、 ϵ より小になる項(かりに U_{n+1} とする)の一つ手前の項(U_n)まで、この級数を計算すればよいことになる。

なお、計算に際しては、次の漸化式

$$U_{n+1} = U_n \times \frac{t^2(2n-1)}{2n(2n+1)}$$

を用いて、次々に項を求めるプログラムをつくり、項打ち切り誤差が、 ϵ より小になる項(U_{n+1})の一手前の項(U_n)までこの級数を計算するようにした。

(表9-1)は、 $t=1(S)$ から、 $1(S)$ きざみで4(S)まで、おのおのの場合の項打ち切り誤差が $10^{-10}(S)$ より小になるまで各項を計算して、最終的にその和(確率) $p(t)$ を求めたものである。

①の□内の三段重ねの数字のB◇は、 $t=1$

(表9-1)	(表9-2)	(表9-3)																																																																																																																																																																																																																																										
<table border="0"> <tr><td>V</td><td>V</td></tr> <tr><td>1 S</td><td>0.1 S</td></tr> <tr><td>1 S</td><td>0.1 S</td></tr> <tr><td>4 S</td><td>3.0 S</td></tr> <tr><td>0.000000001 S</td><td>0.000000001 S</td></tr> <tr><td colspan="2">①</td></tr> <tr><td>1.000000000 C◇</td><td>0.100000000 B◇</td></tr> <tr><td>-0.166666666 C◇</td><td>4.000000000 F◇</td></tr> <tr><td>0.024999999 C◇</td><td>0.039827872 A◇</td></tr> <tr><td>-0.0029761904 C◇</td><td>0.200000000 B◇</td></tr> <tr><td>0.002283518 C◇</td><td>4.000000000 F◇</td></tr> <tr><td>-0.0000236742 C◇</td><td>0.0792597093 A◇</td></tr> <tr><td>0.0000016693 C◇</td><td>0.300000000 B◇</td></tr> <tr><td>-0.000001033 C◇</td><td>5.000000000 F◇</td></tr> <tr><td>0.0000000351 C◇</td><td>0.1179114222 A◇</td></tr> <tr><td>-0.0000000002 C◇</td><td>0.400000000 B◇</td></tr> <tr><td colspan="2">②</td></tr> <tr><td>1.000000000 B◇</td><td>0.500000000 B◇</td></tr> <tr><td>10.000000000 F◇</td><td>6.000000000 F◇</td></tr> <tr><td>0.3413447460 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-0.0000000016 C◇	1.100000000 B◇																																																																																																																																																																																																																																											
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