```
f[s0_, d0_, W0_] := Module[{s = s0, Dif = d0, W = W0},
  nt = 1000; (*Teilnehmer*); n = 2; (*MonteCarlo Läufe*)
  W = Exp[-s^2/2 + s #] & /@ W;
  EW = 0; V = 0;
  For[i = 1, i ≤ n, i++,
   T = 0;
   For[j = 1, j ≤ nt, j++,
    If[W[[i, j]] - Dif/100 > Total[W[[i]]]/nt, T++];
   ];
   EW += T;
   V += T^2;
  ];
  EW/n/nt // N
 ]
```

```
W = RandomReal[NormalDistribution[], {n, nt}];
A = Table[f[a/10. Sqrt[1/12], b, W], {a, 1, 9}, {b, 0, 15}]; MatrixForm[A]
```

$$\begin{pmatrix}
0.499 & 0.3565 & 0.2435 & 0.155 & 0.0835 & 0.0445 & 0.02 & 0.009 & 0.002 & 0.0005 & 0. & 0. \\
0.4935 & 0.418 & 0.3515 & 0.292 & 0.2415 & 0.1995 & 0.155 & 0.1185 & 0.0855 & 0.068 & 0.0465 & 0.0335 \\
0.4865 & 0.435 & 0.389 & 0.344 & 0.305 & 0.274 & 0.2385 & 0.2105 & 0.1795 & 0.155 & 0.132 & 0.1105 \\
0.478 & 0.4435 & 0.4075 & 0.3715 & 0.341 & 0.3105 & 0.2875 & 0.2625 & 0.236 & 0.214 & 0.195 & 0.1695 \\
0.4745 & 0.4445 & 0.4155 & 0.388 & 0.3625 & 0.3375 & 0.3115 & 0.292 & 0.274 & 0.2515 & 0.2325 & 0.217 \\
0.469 & 0.443 & 0.4185 & 0.3945 & 0.372 & 0.3525 & 0.3345 & 0.311 & 0.296 & 0.279 & 0.2655 & 0.2455 \\
0.46 & 0.4395 & 0.4205 & 0.398 & 0.3775 & 0.3635 & 0.343 & 0.3305 & 0.31 & 0.298 & 0.283 & 0.272 \\
0.453 & 0.4355 & 0.4185 & 0.4 & 0.382 & 0.3705 & 0.353 & 0.3375 & 0.324 & 0.3075 & 0.2975 & 0.2845 \\
0.448 & 0.431 & 0.416 & 0.4 & 0.3855 & 0.371 & 0.3585 & 0.343 & 0.334 & 0.32 & 0.306 & 0.2955
\end{pmatrix}$$

```
ListPlot3D[A, Mesh → All]
```
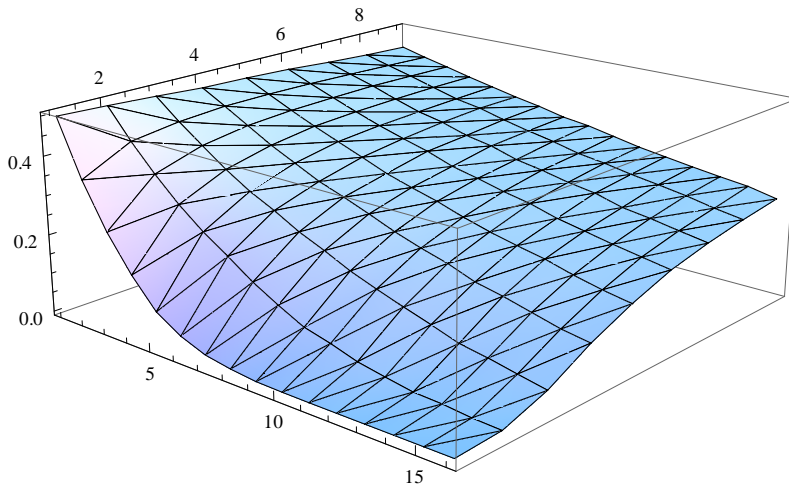


```
f[4/10. Sqrt[3/12], 10, W]
```

0.2765

```
10 * 1000 * %
```

1705.

.5 × 0.9 + .5 × 1.1

1.

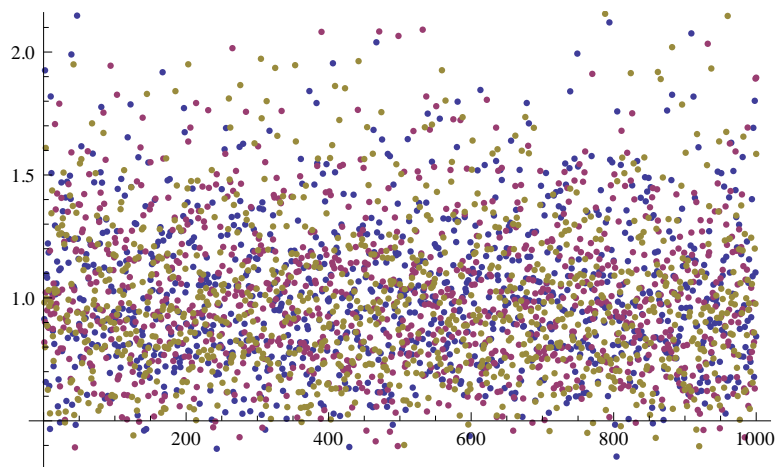**500 * 30**

15 000

3 %

0.8295

1 - %

0.1705

W

ListPlot[Transpose[W]]

Mean[#] & /@ Transpose[W]

{1.0216, 1.00833, 0.996561}

Ew = 13

13