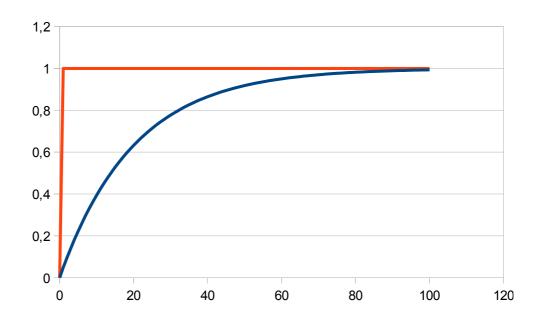
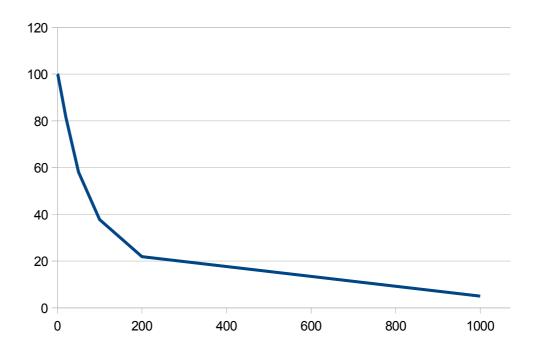
s(t): Weg aus der Höhle = Einheitssprung, h(t): e-Funktion, analog der Aufladlad Kondensators, hier mit T=20 als Zeitkonstanten 1-exp(-t/T), simuliert die Trägheit Höhlengleichnis

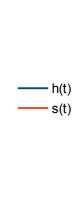


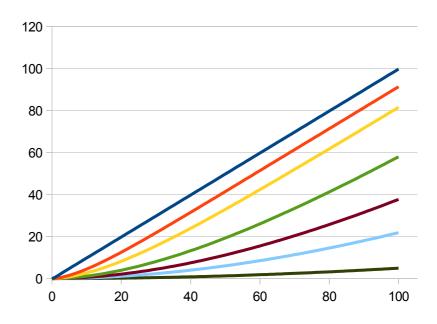
Die erreichte Erkenntnis in am Ende des simulierten Zeitbereichs als Funktion de Zeitkonstanten von h(t), die der Trägheit beschreibt



ung eines tim

Die erreichte Erkenntnis als Funktion der Zeit, abhängig von der Ze





?r



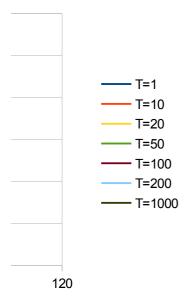
Abzisse und Ordinate sind nicht als Prozentwerte, etwa der Lebenszeit c verstehen, es wurden lediglich 100 samples im Zeitbereich zur Simulatic sind wirklich rein zufällig ...

public class PlatonTransferfunctionImpl implements Transfe

```
private final RealFunction s;
private final RealFunction h;
```

```
public PlatonTransferfunctionImpl(final RealFunction s
       this.s=s;
       this.h=h;
    }
   @Override
   public final Double[] f(final Double[] samples) {
       double result=0;
       final Double results[] = new Double[samples.length]
       results[0]=0D;
       for(int i=1; i<= 100; i++){</pre>
           result+= (h.f(samples[i]) -h.f(samples[i-1]))*s
           results[i]=result;
        }
       return results;
    }
}
```

itkonstanten in h(t)



oder der Erkenntnis zu on verwendet. Analogien

```
>nTransferfunctionImpl(new UnitStep(), new EFunction(20,1));
timeSamples(0, 100, 100))) {
', ','));

rfunction {
```

```
, final RealFunction h) {

];

.f(samples[i-1]) + s.f(samples[i])*h.f(samples[i]);
```

T=1 T=10 T=20 T=50 T=100 0 0 0 0 0 0 1 0,632120559 0,095162582 0,048770575 0,019801327 0,009950166 0,004987521 2 1,729329434 0,362538494 0,190325164 0,078421122 0,039602653 0,019900333 3 2,76509058 0,699632806 0,373746629 0,155681494 0,07891026 0,039726287 4 3,778246371 1,099810934 0,596993099 0,251213334 0,127776915 0,06444088 5 4,783086116 1,557069661 0,858122286 0,364654845 0,186107505 0,094019729 6 5,784866558 2,065977048 1,155286628 0,495651389 0,253807862 0,128438574 7 6,785521546 2,621618077 1,486728669 0,643855355 0,330784756 0,167673275 8 7,785762503 3,219545452 1,850776667 0,808926013 0,416945883 0,211699813 9 8,785851146 3,855735097 2,24584041 0,990529379 0,512199859 0,260494289 10 9,785883756 4,526545874 2,670407242 1,188338084 0,616456208 0,314032922 11 10,78589575 5,228683148 3,123038281 1,402031241 0,729625356 0,37229205 12 11,78590017 5,959165808 3,602364819 1,631294317 0,851618618 0,435248131 13 12,78590179 6,715296434 4,107084902 1,875819007 0,982348192 0,502877738 14 13,78590239 7,494634299 4,635960071 2,13530311 1,121727153 0,575157561 15 14,78590261 8,294970943 5,187812269 2,40945041 1,269669435 0,652064409 16 15,78590269 9,114308067 5,761520894 2,697970556 1,426089834 0,733575202 17 16,78590272 9,950837537 6,356019994 3,000578948 1,590903989 0,81966698 18 17,78590273 10,80292328 6,970295606 3,316996618 1,764028383 0,910316894 19 18,78590273 11,66908493 7,603383219 3,646950126 1,945380327 1,00550221 20 19,78590273 12,54798299 8,25436536 3,990171443 2,134877954 1,105200308 21 20,78590273 13,43840541 8,922369303 4,34639785 2,332440216 1,209388681 22 21,78590273 14,33925553 9,606564885 4,715371827 2,537986866 1,318044933 15,249541 10,30616243 5,096840957 2,751438459 1,431146781 23 22,78590273 24 23,78590273 16,16836393 11,02041078 5,490557819 2,972716339 1,548672051 25 24,78590273 17,09491189 11,74859539 5,896279892 3,201742634 1,670598683 26 25,78590273 18,02844973 12,4900366 6,313769455 3,438440245 1,796904723 27 26,78590273 18,96831228 13,24408788 6,742793499 3,682732843 1,927568331 28 27,78590273 19,91389767 14,01013421 7,183123623 3,934544854 2,062567772 29 28,78590273 20,86466129 14,7875906 7,634535954 4,19380146 2,201881421 30 29,78590273 21,82011038 15,57590056 8,096811048 4,460428586 2,345487761 31 30,78590273 22,77979904 16,37453478 8,569733809 4,734352895 2,493365383 32 31,78590273 23,74332384 17,18298971 9,053093399 5,015501777 2,645492982 33 32,78590273 24,7103197 18,00078642 9,546683154 5,303803347 2,801849363 34 33,78590273 25,68045633 18,82746928 10,0503005 5,599186435 2,962413434 35 34,78590273 26,65343484 19,66260491 10,56374689 5,901580578 3,127164209 36 35,78590273 27,62898477 20,50578108 11,08682768 6,210916016 3,296080807 37 36,78590273 28,60686144 21,35660564 11,61935211 6,527123681 3,469142451 38 37,78590273 29,58684343 22,21470556 12,16113317 6,850135193 3,646328467 39 38,78590273 30,56873038 23,07972604 12,71198757 7,179882853 3,827618284 40 39,78590273 31,55234101 23,95132954 13,27173565 7,516299635 4,012991436 41 40,78590273 32,5375113 24,82919502 13,84020131 7,859319181 4,202427557 42 41,78590273 33,52409282 25,71301707 14,41721192 8,208875792 4,395906381 43 42,78590273 34,51195128 26,60250518 15,00259828 8,564904422 4,593407747 44 43,78590273 35,50096516 27,49738302 15,59619453 8,927340675 4,794911591 45 44,78590273 36,4910245 28,39738773 16,19783813 9,296120792 5,000397951 46 45,78590273 37,48202983 29,30226927 16,8073697 9,671181653 5,209846965 47 46,78590273 38,47389111 30,21178979 17,42463307 10,05246076 5,423238868 48 47,78590273 39,46652689 31,12572304 18,04947514 10,43989625 5,640553996 49 48,78590273 40,45986347 32,04385382 18,68174583 10,83342685 5,86177278 50 49,78590273 41,45383416 32,96597741 19,32129804 11,23299192 6,086875753 51 50,78590273 42,44837862 33,89189908 19,9679876 11,63853143 6,31584354

52 51,78590273 43,44344223 34,82143359 20,62167318 12,04998591 6,548656866 53 52,78590273 44,43897561 35,75440474 21,28221624 12,46729652 6,785296552 54 53,78590273 45,43493404 36,69064493 21,949481 12,89040498 7,025743513 55 54,78590273 46,43127708 37,62999472 22,62333436 13,31925361 7,269978761 56 55,78590273 47,42796813 38,57230245 23,30364585 13,7537853 7,517983401 57 56,78590273 48,42497406 39,51742388 23,9902876 14,19394348 7,769738634 58 57,78590273 49,42226491 40,46522176 24,68313426 14,63967219 8,025225753 59 58,78590273 50,41981358 41,41556556 25,38206297 15,09091599 8,284426146 60 59,78590273 51,41759552 42,36833113 26,08695328 15,54762 8,547321292 61 60,78590273 52,41558854 43,32340035 26,79768716 16,0097299 8,813892764 62 61,78590273 53,41377254 44,28066087 27,51414889 16,47719189 9,084122226 63 62,78590273 54,41212936 45,24000582 28,23622506 16,94995273 9,357991434 64 63,78590273 55,41064255 46,20133354 28,96380448 17,42795968 9,635482234 65 64,78590273 56,40929723 47,16454733 29,6967782 17,91116055 9,916576564 66 65,78590273 57,40807994 48,1295552 30,43503939 18,39950366 10,20125645 67 66,78590273 58,40697848 49,09626966 31,17848335 18,89293784 10,48950401 68 67,78590273 59,40598184 50,06460748 31,92700747 19,39141243 10,78130145 69 68,78590273 60,40508005 51,03448947 32,68051114 19,89487728 11,07663107 70 69,78590273 61,40426407 52,00584034 33,43889576 20,40328275 11,37547524 71 70,78590273 62,40352574 52,97858845 34,20206469 20,91657965 11,67781645 72 71,78590273 63,40285767 53,95266564 34,96992319 21,43471934 11,98363724 73 72,78590273 64,40225318 54,92800711 35,7423784 21,95765362 12,29292026 74 73,78590273 65,40170621 55,90455118 36,5193393 22,48533477 12,60564825 75 74,78590273 66,4012113 56,88223922 37,30071667 23,01771558 12,92180402 76 75,78590273 67,40076348 57,86101542 38,08642305 23,55474928 13,24137048 77 76,78590273 68,40035828 58,84082672 38,87637274 24,09638957 13,56433062 78 77,78590273 69,39999163 59,82162263 39,6704817 24,64259062 13,89066751 79 78,78590273 70,39965988 60,80335514 40,46866757 25,19330704 14,2203643 80 79,78590273 71,3993597 61,78597856 41,27084963 25,74849391 14,55340425 81 80,78590273 72,39908809 62,76944945 42,07694875 26,30810674 14,88977067 82 81,78590273 73,39884232 63,75372648 42,88688737 26,8721015 15,22944699 83 82,78590273 74,39861994 64,73877032 43,70058945 27,44043458 15,57241667 84 83,78590273 75,39841872 65,72454358 44,51798048 28,01306282 15,91866332 85 84,78590273 76,39823665 66,71101069 45,3389874 28,58994348 16,26817056 86 85,78590273 77,39807191 67,69813781 46,16353863 29,17103424 16,62092216 87 86,78590273 78,39792284 68,68589274 46,99156398 29,75629323 16,97690192 88 87,78590273 79,39778796 69,67424487 47,82299465 30,34567895 17,33609375 89 88,78590273 80,39766592 70,66316508 48,65776322 30,93915036 17,69848162 90 89,78590273 81,39755548 71,65262565 49,49580359 31,53666679 18,06404959 91 90,78590273 82,39745556 72,64260024 50,33705098 32,13818801 18,4327818 92 91,78590273 83,39736515 73,63306377 51,18144188 32,74367415 18,80466248 93 92,78590273 84,39728334 74,62399241 52,02891404 33,35308577 19,17967592 94 93,78590273 85,39720932 75,61536345 52,87940646 33,96638381 19,55780648 95 94,78590273 86,39714234 76,60715534 53,73285933 34,5835296 19,93903864 96 95,78590273 87,39708173 77,59934754 54,58921402 35,20448485 20,32335691 97 96,78590273 88,39702689 78,59192053 55,44841309 35,82921166 20,71074591 98 97,78590273 89,39697727 79,58485574 56,31040019 36,4576725 21,10119032 99 98,78590273 90,39693238 80,57813551 57,17512014 37,08983021 21,4946749 100 99,78590273 91,39689175 81,57174302 58,04251881 37,72564802 21,89118449

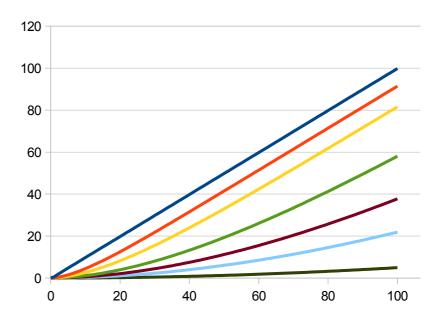
1 99,78590273 10 91,39689175

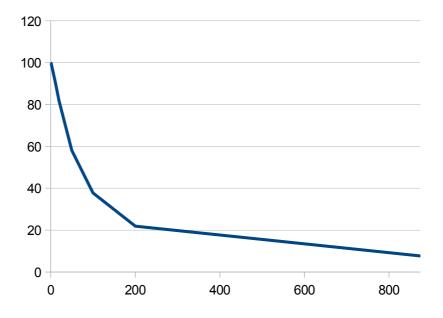
44	0,889196842	1
	0,894600775	1
46	0,899741156	1
47	0,904630838	1
48	0,909282047	1
49	0,913706414	1
50	0,917915001	1
51	0,921918334	1
52	0,925726422	1
53	0,929348787	1
54	0,932794487	1
55	0,936072139	1
56	0,939189937	1
57	0,942155679	1
	0,94497678	1
	0,947660294	1
	0,950212932	1
	0,952641076	1
	0,954950798	1
	0,957147873	1
	0,959237796	1
	0,961225792	1
	0,963116833	1
	0,964915646	1
	0,96662673	1
	0,968254364	1
	0,969802617	1
	0,97127536	1
	0,972676278	1
	0,974008871	1
	0,975276474	1
	0,976482254 0,977629228	1
	0,978720264	1
		1
	0,979758089 0,980745298	1
	0,981684361	1
	0,982577625	1
	0,983427325	1
	0,984235584	1
	0,985004423	1
	0,985735766	1
	0,986431441	1
	0,987093187	1
88		1
	0,988321433	1
	0,988891003	1
	0,989432796	1
	0,989948164	1
	0,990438398	1
	0,990904723	1
	0,991348305	1
	0,991770253	1

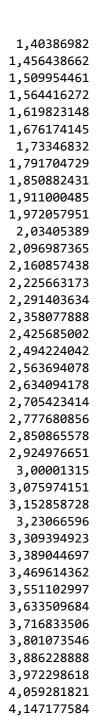
97 0,992171622	1
98 0,992553417	1
99 0,992916591	1
100 0,993262053	1

T=1000 0 1,00E-003 0,003996003 0,00798901 0,012977527 0,018960558 0,025937109 0,033906187 0,042866801 0,052817958 0,063758669 0,075687945 0,088604798 0,102508241 0,117397288 0,133270953 0,150128252 0,167968203 0,186789823 0,206592131 0,227374147 0,249134891 0,271873385 0,295588653 0,320279717 0,345945603 0,372585335 0,400197942 0,42878245 0,458337888 0,488863285 0,520357673 0,552820081 0,586249544 0,620645095 0,656005767 0,692330596 0,729618619 0,767868872 0,807080395 0,847252226 0,888383405 0,930472974 0,973519974 1,01752345 1,062482443 1,108396001 1,155263168 1,203082991 1,251854519 1,3015768

1,352248883







4,235984996 4,325703145 4,416331121 4,507868014 4,600312916 4,69366492 4,787923119 4,883086607 4,979154479

