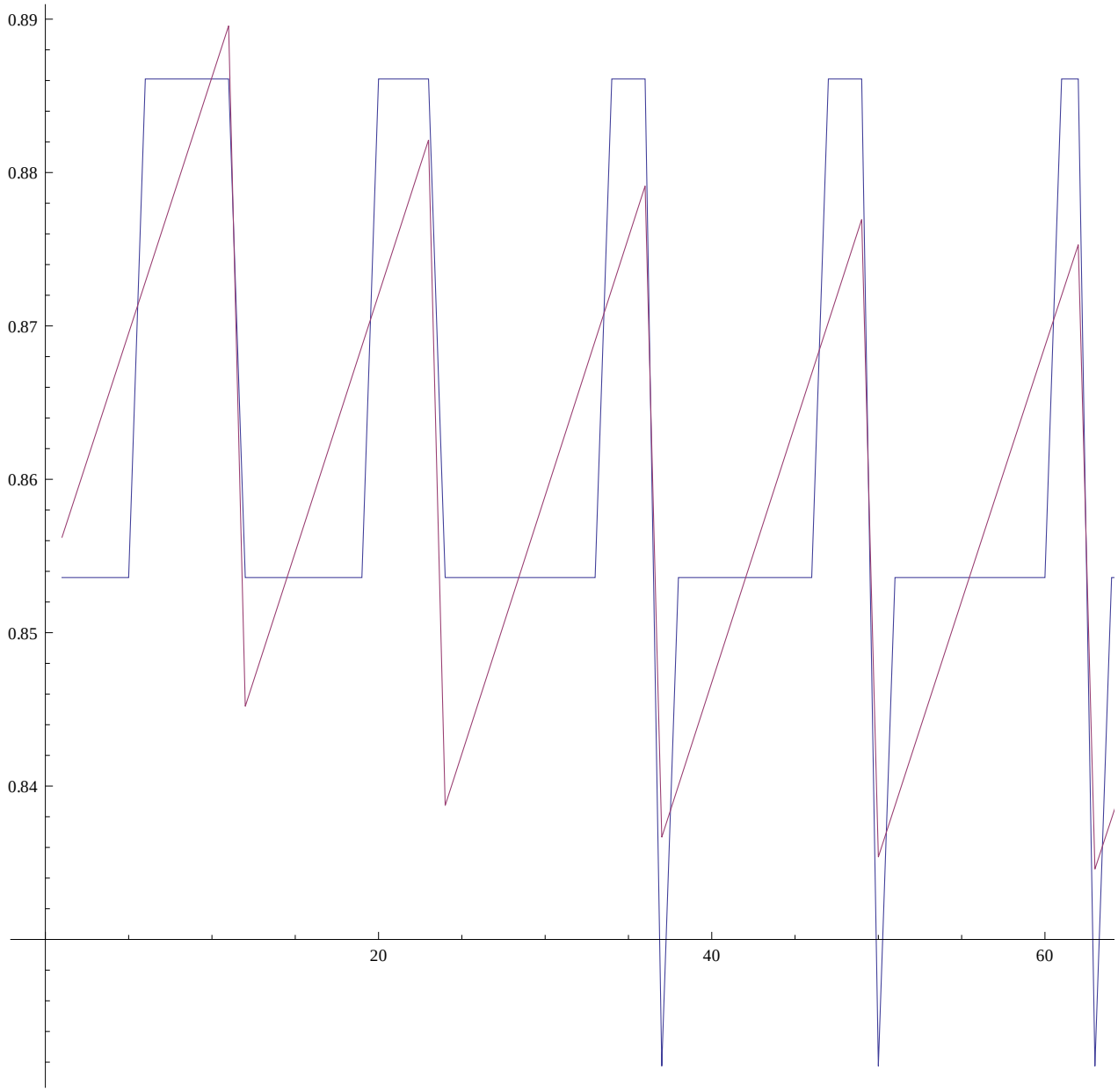
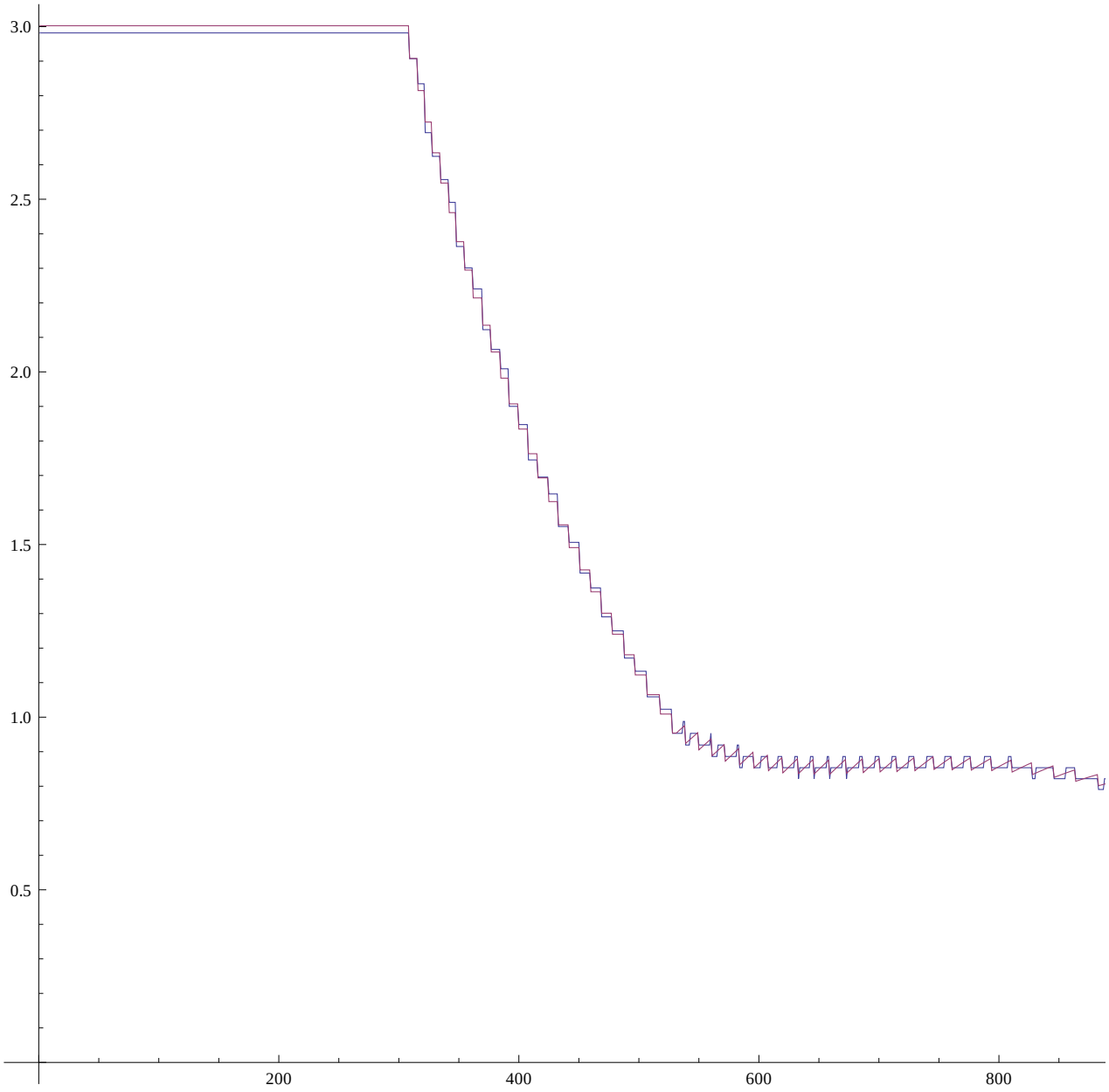
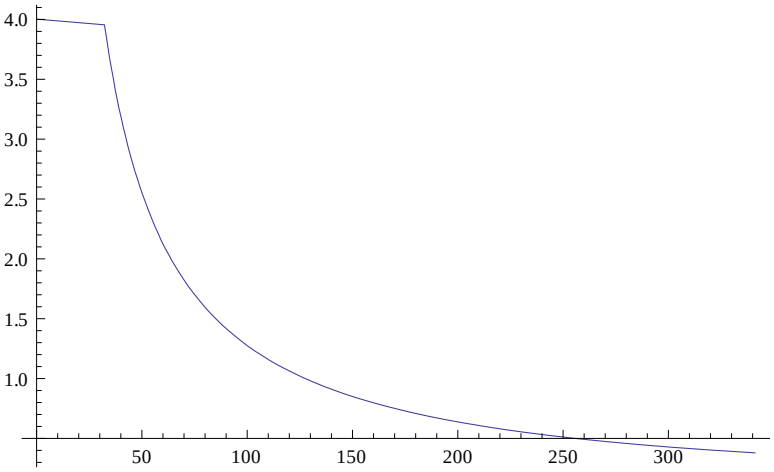
```
d = Import[
    "/home/data/promotion/Programmierung/fipster/output/Decisions/newest/Decisions1-
      grid1-40000000.dat"][[4 ;;]];

delta[i_, n_] := ((a^2 - b^2) f[x] + b^2 f[a + x] - a^2 f[-b + x])/(a b (a + b)) /.
  {f[x] → d[[i, n]], f[x + a] → d[[i + 1, n]], f[-b + x] → d[[i - 1, n]]
   , a → d[[i + 1, 1]] - d[[i, 1]], b → d[[i, 1]] - d[[i - 1, 1]]}

h[i_] := Transpose[d][[i]];
a1 = 600; a2 = 700;
ListLinePlot[{h[6][[a1 ;; a2]], h[9][[a1 ;; a2]] + Table[delta[i, 2], {i, a1, a2}]}]
a1 = 4; a2 = 1400;
ListLinePlot[{h[6][[a1 ;; a2]], h[9][[a1 ;; a2]] + Table[delta[i, 2], {i, a1, a2}]}]
```

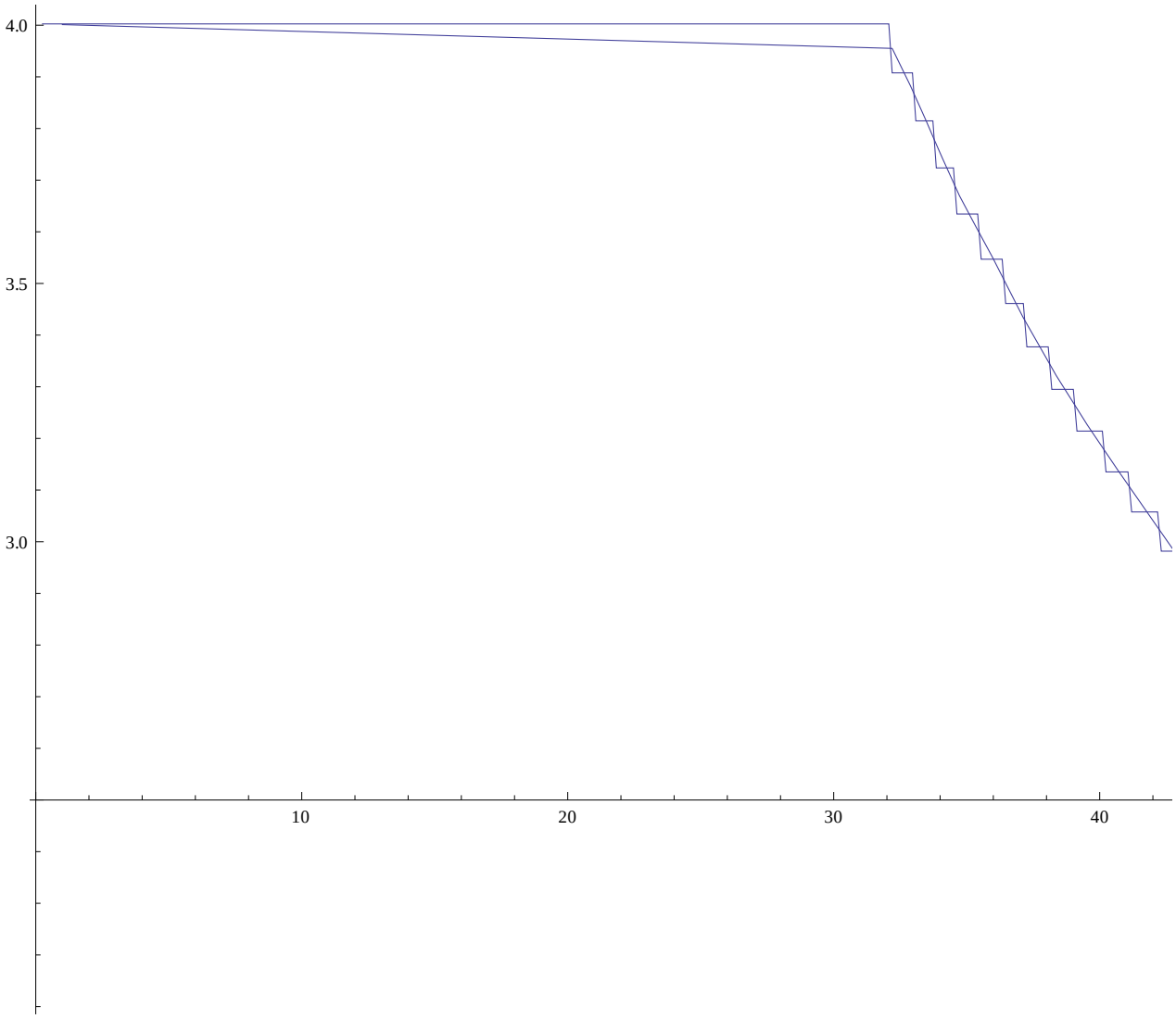

0.89
0.88
0.87
0.86
0.85
0.84
20
40
60


3.0
2.5
2.0
1.5
1.0
0.5
200
400
600
800

```
s[i_] := h[i][[2 ;; 1400]];
ds = Differences[Prepend[s[9], 0]];
res = Pick[Transpose[{s[1], Prepend[
       MovingAverage[s[9], 2], s[9][[1]]]
    }], # != 0. & /@ ds];
ListLinePlot[res, PlotRange → All]
```



```
f = Interpolation[res, InterpolationOrder → 1];
Show[Plot[f[x], {x, 1, 60}], ListLinePlot[Transpose[{h[1], h[9]}][[a1 ;; a2]]]]
```



```
ListLinePlot[{h[6][[a1 ;; a2]], Table[f[h[1][[i]]] + delta[i, 2], {i, a1, a2}]}]
```

InterpolatingFunction::dmval : Input value {341.679} lies outside
the range of data in the interpolating function. Extrapolation will be used. ≫

InterpolatingFunction::dmval : Input value {342.218} lies outside
the range of data in the interpolating function. Extrapolation will be used. ≫