

## Mastermodul zur -- Datenauswertung D 20.06.2021

Wenn nicht schon geschehen: Daten für D aus JHU Ressource laden und auswerten:

**NotebookEvaluate** ["/file-path/Daten/dat-Germany-2021-06-20.nb"]

[|werte aus im Notebook](#)

e = 2 pc= 7 pd= 10, q = 15, N0 = 84 000 000

t0 inJHU-Zählung t0JHU=35 i.e. {2020, 2, 25}

Test DatePlus [datet0 ,tMarch1] = {2020, 3, 1}

letztes QneuJHU = 475

letztes Qneu7JHU = 749.429

Inhalt der Datei ImpfungenD =

```
{date, dosen_kumulativ, dosen_differenz _zum_vortag, dosen_erst _differenz _zum_vortag,
dosen_zweit _differenz _zum_vortag, dosen_biontech _kumulativ,
dosen_moderna _kumulativ, dosen_astrazeneca _kumulativ, personen_erst _kumulativ,
personen_voll _kumulativ, impf_quote_erst, impf_quote_voll, indikation_alter _dosen,
indikation_beruf _dosen, indikation_medizinisch _dosen, indikation_pflegeheim _dosen,
indikation_alter _erst, indikation_beruf _erst, indikation_medizinisch _erst,
indikation_pflegeheim _erst, indikation_alter _voll, indikation_beruf _voll,
indikation_medizinisch _voll, indikation_pflegeheim _voll, dosen_dim_kumulativ,
dosen_kbv_kumulativ, dosen_johnson_kumulativ, dosen_biontech _erst_kumulativ,
dosen_biontech _zweit_kumulativ, dosen_moderna _erst_kumulativ,
dosen_moderna _zweit_kumulativ, dosen_astrazeneca _erst_kumulativ,
dosen_astrazeneca _zweit_kumulativ, dosen_erst_kumulativ, dosen_zweit_kumulativ }
```

Gewichtete Anzahl de Abzugs von den Suszeptiblen durch Impfungen bis zum Vortag =  
 $3.78669 \times 10^7$

Gesamtzahl der Impfungen bis zum Vortag = 43 958 788

sJHU(1. Okt 2020)=0.992299

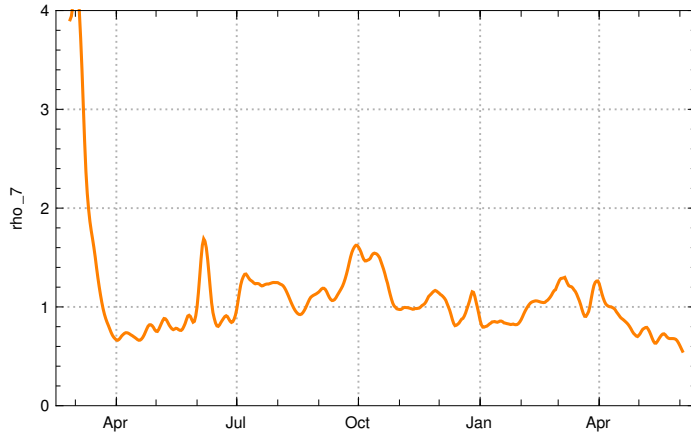
t1(rhokappa7)=29 i.e. {2020, 3, 24}

eod =520 i.e. {2021, 6, 24}

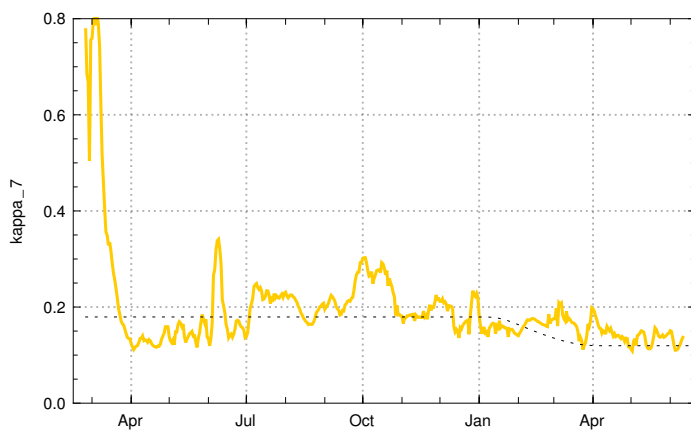
t1(kappa7)=29 i.e. {2020, 3, 24}

end of kappa7 {2021, 6, 11}

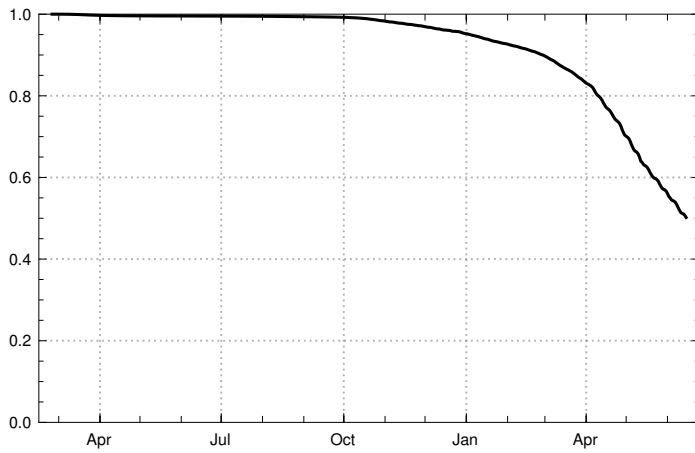
end of RhoJHU7 {2021, 6, 3}



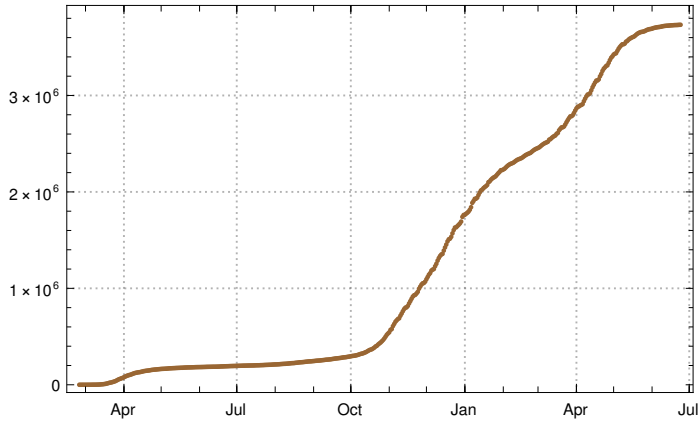
Graph Rhokappa7 <graph-D-rhokappa7 .pdf>



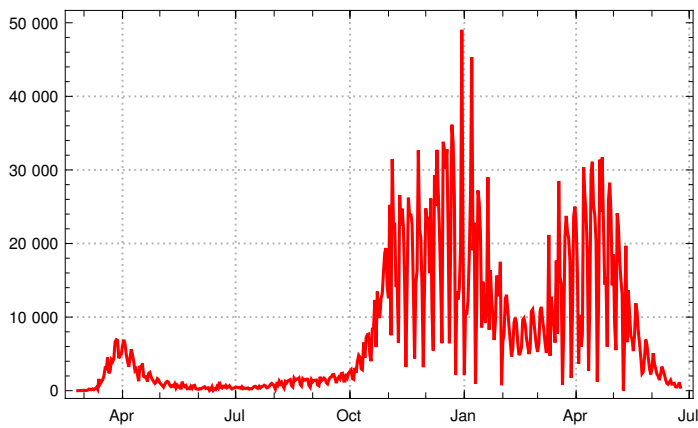
Graph kappa7 with critical value (dotted) <graph-D-kappa7 .pdf>



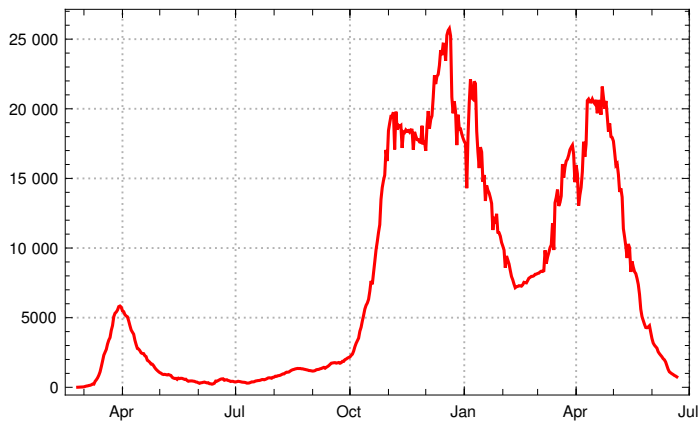
Graph  $s_{JHU}(t)$  Anteil der Suszeptiblen (unter Abzug der nach Dashboard Ministerium für Gesundheit mindestens einmal Geimpften) <graph-D-A-Aq-P-JHU .pdf>



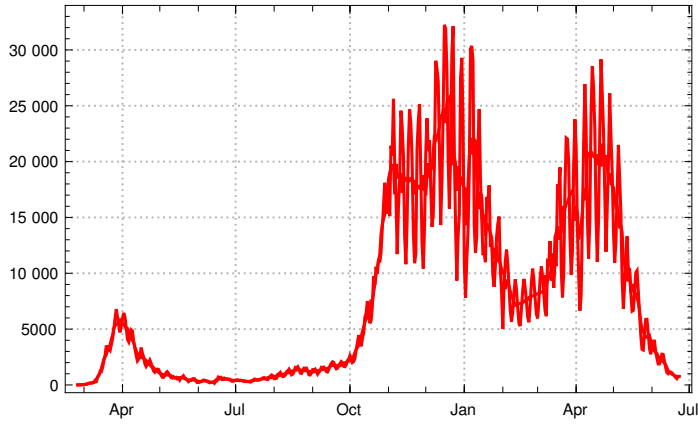
Graph Conf <graph-D-Conf.pdf>



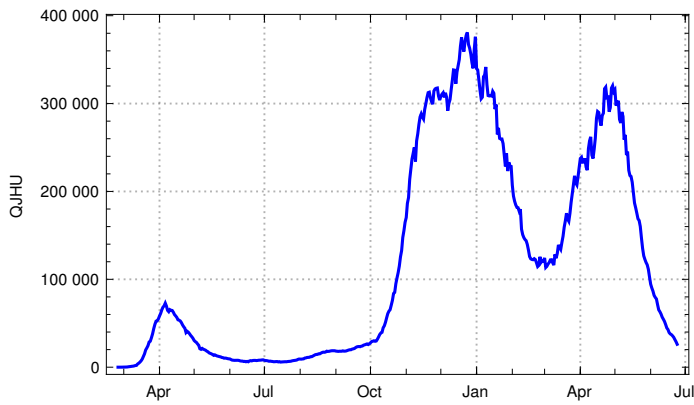
Graph QneuJHU } <graph-D-QneuJHU.pdf>



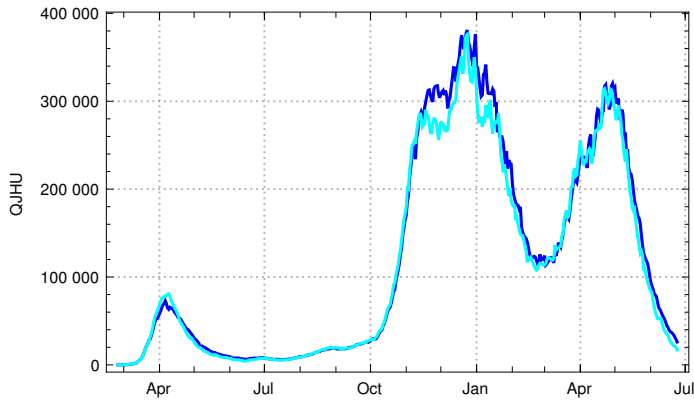
Graph Qneu7JHU <graph-D-Qneu7JHU.pdf>



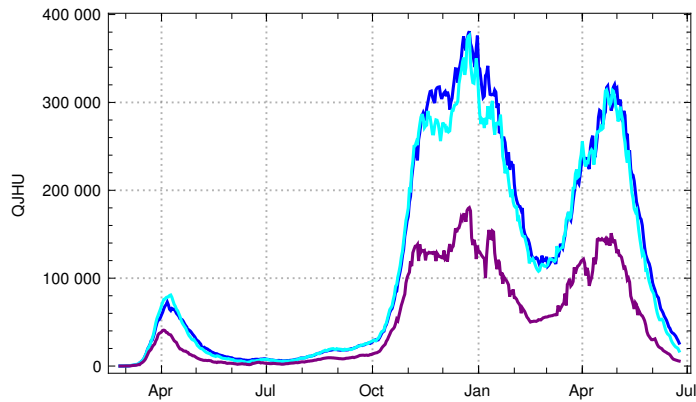
Graph Qneu7JHU und Qneu3JHU <graph-D-Qneu3-7JHU.pdf>



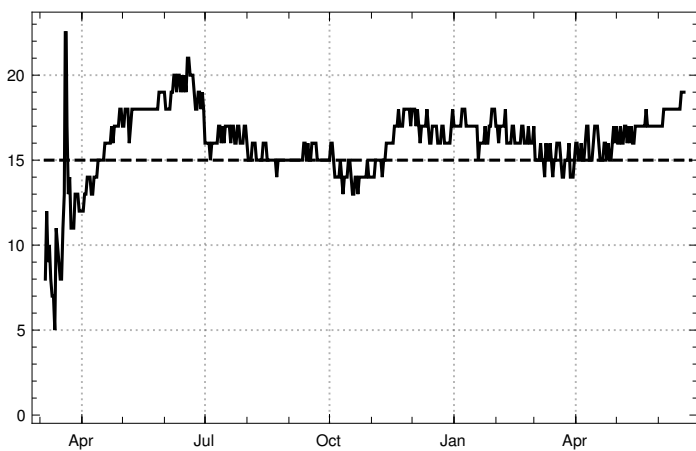
Graph QJHU <graph-D-QJHU.pdf>



Graph QJHU und QqJHU <graph-D-A-Aq-JHU.pdf>



Graph QJHU, QqJHU, PJHU &lt;graph-D-A-Aq-P-JHU.pdf&gt;



Graph q(k) &lt;graph-D-q(k).pdf&gt;

{ \_\_\_\_\_ }

## Datenauswertung

NotebookEvaluate ["file-path/SEPAR-Modell-D-2021-06-20.nb"]

[werte aus im Notebook](#)

[leite ab](#)

$$e = 2 \quad pc = 7 \quad pd = 10 \quad q = 15 \quad \alpha = \frac{1}{2} \quad \delta = 1 \quad \xi = \xi, \quad N = 84\,000\,000$$

t0 in JHU-Zählung = 35 in Landeszählung = 1, i.e. {2020, 2, 25};

t1 in Landeszählung = 29 i.e. {2020, 3, 24}

t0=1, t0JHU=35, i.e. {2020, 2, 25}

t1=29, t1JHU=64, i.e. {2020, 3, 24}

t2=62, t2JHU=97, i.e. {2020, 4, 26}

t3=132, t3JHU=167, i.e. {2020, 7, 5}

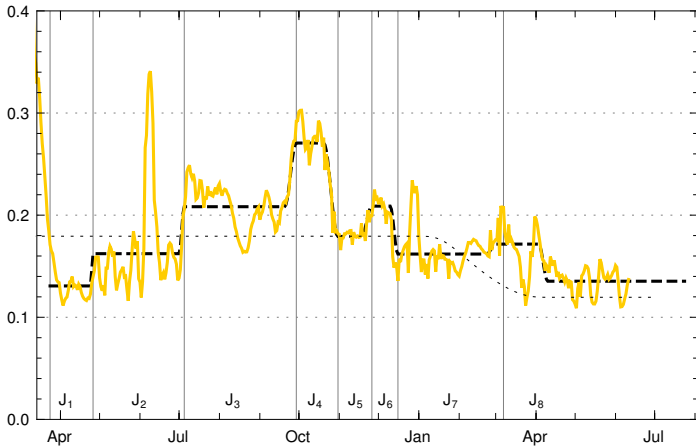
t4=218, t4JHU=253, i.e. {2020, 9, 29}

t5=250, t5JHU=285, i.e. {2020, 10, 31}

t6=276, t6JHU=311, i.e. {2020, 11, 26}

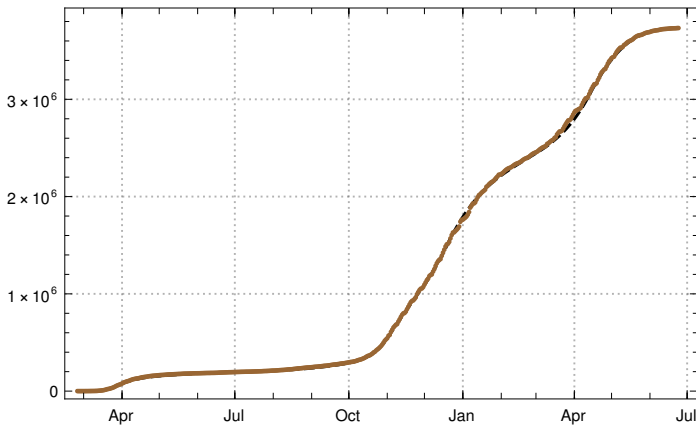
t7=296, t7JHU=331, i.e. {2020, 12, 16}

t8=371, t8JHU=406, i.e. {2021, 3, 1}  
 t9=411, t9JHU=446, i.e. {2021, 4, 10}  
 eod=486 i.e. {2021, 6, 24}  
 a1=0.130688 a2=0.16228 a3 =0.208276  
 a4 =0.270609 a5 =0.179143 a6 =0.208846 a7 =0.161909

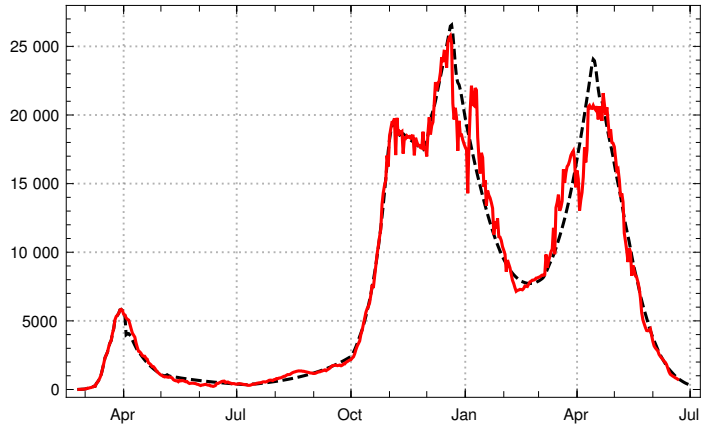


Kontaktraten D mit Modellwerten

a0=1.04078 RMSEQtot = 13 917.1  
 RMESE Anew= 1239.59



Graph Qtot SEPAR (black dashed), QtotJHU =Confirmed



Graph Anew SEPAR (black dotted),

`Out[ ]:= {16 808.3 , 23 951.9 , 16 419.7}`