

NUMERICAL DATA FOR “THE TATE CONJECTURE FOR A FAMILY OF SURFACES OF GENERAL TYPE WITH $p_g = q = 1$ AND $K^2 = 3$ ”

CHRISTOPHER LYONS

This file is a companion to the file [3], which in turn is a companion to [2]. These data represent 15-digit numerical approximations using SINGULAR [1] of the coordinates (x, y, u, v, t, a) of the 126 points in $T \subseteq \tilde{P}$ that are singularities of some fiber of the pencil $\tilde{L}_1$ on $\tilde{P}$. The a -coordinate represents the fiber for which the point is a singularity.

[1]:

[1]:

[1]:

[1]:
(-0.719567627977176+i*1.061187764270621) \\ x-coordinate

[2]:
(-0.0432437084453752+i*0.146281135311257) \\ y-coordinate

[3]:
(0.731324421085573-i*0.0547166524215643) \\ u-coordinate

[4]:
(1.134008625548345-i*0.501763078674662) \\ v-coordinate

[5]:
(-0.421149651136688-i*0.259901878496532) \\ t-coordinate

[6]:
(4.296707176046358-i*8.713430122870434) \\ a-coordinate

[2]:

[1]:
(-1.143033050405866-i*0.554500212271058)

[2]:
(0.510799932290785-i*1.262517720249118)

[3]:
(1.593038873181627-i*0.566913364987375)

[4]:
(1.359770642705007+i*0.101735958068959)

[5]:
(-0.437348226673243+i*0.113161896630925)

[6]:
(4.296707176046358-i*8.713430122870434)

[3]:

[1]:
(-0.922400383375641-i*0.594085791432809)

[2]:
(-0.379157841617732+i*1.061332907276994)

[3]:
(0.73745060128201+i*0.326299123866961)

[4]:
(0.557169419834233+i*0.198279542606128)

[5]:
(-0.474835455523402+i*0.146739981865607)

[6]:

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      (4.296707176046358-i*8.713430122870434)
[4]:
  [1]:
    (-0.719567627977176-i*1.061187764270621)
  [2]:
    (-0.0432437084453752-i*0.146281135311257)
  [3]:
    (0.731324421085573+i*0.0547166524215643)
  [4]:
    (1.134008625548345+i*0.501763078674662)
  [5]:
    (-0.421149651136688+i*0.259901878496532)
  [6]:
    (4.296707176046358+i*8.713430122870434)
[5]:
  [1]:
    (-1.143033050405866+i*0.554500212271058)
  [2]:
    (0.510799932290785+i*1.262517720249118)
  [3]:
    (1.593038873181627+i*0.566913364987375)
  [4]:
    (1.359770642705007-i*0.101735958068959)
  [5]:
    (-0.437348226673243-i*0.113161896630925)
  [6]:
    (4.296707176046358+i*8.713430122870434)
[6]:
  [1]:
    (-0.922400383375641+i*0.594085791432809)
  [2]:
    (-0.379157841617732-i*1.061332907276994)
  [3]:
    (0.73745060128201-i*0.326299123866961)
  [4]:
    (0.557169419834233-i*0.198279542606128)
  [5]:
    (-0.474835455523402-i*0.146739981865607)
  [6]:
    (4.296707176046358+i*8.713430122870434)
[7]:
  [1]:
    (-0.727117404359727-i*1.062822946727292)
  [2]:
    (-0.0474342875874572+i*0.0254504866453305)
  [3]:
    (0.42196879333238+i*0.140527099177768)
  [4]:
    (-0.518616520553573-i*0.170138267119806)
  [5]:
    (-0.419964985922571+i*0.25843548489165)
  [6]:
    (1.389758889996106-i*0.486378537939932)
[8]:

```

```

[1]:
  (-1.025692664161746+i*0.613064294841613)
[2]:
  (0.47453805968051+i*1.116800621887435)
[3]:
  (-1.227210517261125+i*0.00549345588578142)
[4]:
  (2.133250760378274-i*0.710430595607088)
[5]:
  (-0.452236363351381-i*0.136866747905453)
[6]:
  (1.389758889996106-i*0.486378537939932)
[9]:
  [1]:
    (-1.027651960961238+i*0.534552137918721)
  [2]:
    (-0.415117163088272-i*1.176426920557871)
  [3]:
    (-1.740848922069183+i*0.571106023776653)
  [4]:
    (-0.81483979186379-i*0.00364752940723909)
  [5]:
    (-0.461131984059381-i*0.121568736986197)
  [6]:
    (1.389758889996106-i*0.486378537939932)
[10]:
  [1]:
    (-0.727117404359727+i*1.062822946727292)
  [2]:
    (-0.0474342875874572-i*0.0254504866453305)
  [3]:
    (0.42196879333238-i*0.140527099177768)
  [4]:
    (-0.518616520553573+i*0.170138267119806)
  [5]:
    (-0.419964985922571-i*0.25843548489165)
  [6]:
    (1.389758889996106+i*0.486378537939932)
[11]:
  [1]:
    (-1.025692664161746-i*0.613064294841613)
  [2]:
    (0.47453805968051-i*1.116800621887435)
  [3]:
    (-1.227210517261125-i*0.00549345588578142)
  [4]:
    (2.133250760378274+i*0.710430595607088)
  [5]:
    (-0.452236363351381+i*0.136866747905453)
  [6]:
    (1.389758889996106+i*0.486378537939932)
[12]:
  [1]:
    (-1.027651960961238-i*0.534552137918721)

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[2]:
  (-0.415117163088272+i*1.176426920557871)
[3]:
  (-1.740848922069183-i*0.571106023776653)
[4]:
  (-0.81483979186379+i*0.00364752940723909)
[5]:
  (-0.461131984059381+i*0.121568736986197)
[6]:
  (1.389758889996106+i*0.486378537939932)
[13]:
  [1]:
    (1.359402124563056-i*1.642352759083765)
  [2]:
    (-1.603812846531419+i*3.361585959529432)
  [3]:
    (0.702323701813534+i*0.411935381764477)
  [4]:
    (0.256419507489642-i*0.215166111527453)
  [5]:
    (0.127154813986308+i*0.581056831077682)
  [6]:
    (0.824974435031358-i*1.390707265197068)
[14]:
  [1]:
    (0.259894006648671+i*8.104109962589794)
  [2]:
    (-14.389381467149381+i*18.009518780157693)
  [3]:
    (2.288490970420659+i*1.920312959773512)
  [4]:
    (0.816216597721111+i*2.291391708113429)
  [5]:
    (-0.0111757372568355-i*0.122373557917417)
  [6]:
    (0.824974435031358-i*1.390707265197068)
[15]:
  [1]:
    (0.372835513187716+i*0.198487129223209)
  [2]:
    (0.339566831551303+i*0.620564587383241)
  [3]:
    (0.137951662039964-i*0.387276239421496)
  [4]:
    (1.05939271450643-i*0.621367812536925)
  [5]:
    (-1.449312410062806-i*0.458683273160266)
  [6]:
    (0.824974435031358-i*1.390707265197068)
[16]:
  [1]:
    (1.359402124563056+i*1.642352759083765)
  [2]:
    (-1.603812846531419-i*3.361585959529432)

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```
[3]:
(0.702323701813534-i*0.411935381764477)
[4]:
(0.256419507489642+i*0.215166111527453)
[5]:
(0.127154813986308-i*0.581056831077682)
[6]:
(0.824974435031358+i*1.390707265197068)
[17]:
[1]:
(0.259894006648671-i*8.104109962589794)
[2]:
(-14.389381467149381-i*18.009518780157693)
[3]:
(2.288490970420659-i*1.920312959773512)
[4]:
(0.816216597721111-i*2.291391708113429)
[5]:
(-0.0111757372568355+i*0.122373557917417)
[6]:
(0.824974435031358+i*1.390707265197068)
[18]:
[1]:
(0.372835513187716-i*0.198487129223209)
[2]:
(0.339566831551303-i*0.620564587383241)
[3]:
(0.137951662039964+i*0.387276239421496)
[4]:
(1.05939271450643+i*0.621367812536925)
[5]:
(-1.449312410062806+i*0.458683273160266)
[6]:
(0.824974435031358+i*1.390707265197068)
[19]:
[1]:
(2.385369974863955-i*0.441361180987026)
[2]:
(-4.53056697526151+i*1.103065647246238)
[3]:
(0.681138931444903+i*0.464692280165189)
[4]:
(-0.106206683114771-i*0.449148340779966)
[5]:
(0.655315720113476+i*0.208775219180746)
[6]:
(0.468435623759932-i*0.777163850988568)
[20]:
[1]:
(12.818092929007386+i*4.926176851849022)
[2]:
(45.284541136532436+i*26.938931921581205)
[3]:
(-0.498589939919732+i*2.108538160470867)
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[4]:
  (-1.319430424510625+i*1.2045165334852)
[5]:
  (0.0720903173400666-i*0.0300496581518177)
[6]:
  (0.468435623759932-i*0.777163850988568)
[21]:
  [1]:
    (0.518360120309197+i*0.0417720741069623)
  [2]:
    (0.43632123494839+i*0.135997575659869)
  [3]:
    (-0.413386902064433-i*0.377383565675711)
  [4]:
    (1.001838200025711-i*0.683482408704743)
  [5]:
    (-2.060739370786876-i*0.178725561028928)
  [6]:
    (0.468435623759932-i*0.777163850988568)
[22]:
  [1]:
    (2.385369974863955+i*0.441361180987026)
  [2]:
    (-4.53056697526151-i*1.103065647246238)
  [3]:
    (0.681138931444903-i*0.464692280165189)
  [4]:
    (-0.106206683114771+i*0.449148340779966)
  [5]:
    (0.655315720113476-i*0.208775219180746)
  [6]:
    (0.468435623759932+i*0.777163850988568)
[23]:
  [1]:
    (12.818092929007386-i*4.926176851849022)
  [2]:
    (45.284541136532436-i*26.938931921581205)
  [3]:
    (-0.498589939919732-i*2.108538160470867)
  [4]:
    (-1.319430424510625-i*1.2045165334852)
  [5]:
    (0.0720903173400666+i*0.0300496581518177)
  [6]:
    (0.468435623759932+i*0.777163850988568)
[24]:
  [1]:
    (0.518360120309197-i*0.0417720741069623)
  [2]:
    (0.43632123494839-i*0.135997575659869)
  [3]:
    (-0.413386902064433+i*0.377383565675711)
  [4]:
    (1.001838200025711+i*0.683482408704743)

```

```
[5]:  
  (-2.060739370786876+i*0.178725561028928)  
[6]:  
  (0.468435623759932+i*0.777163850988568)  
[25]:  
  [1]:  
    (-1.652634601548776-i*0.671414019057143)  
  [2]:  
    (0.992130829617419-i*1.839897886562361)  
  [3]:  
    (0.293950587472331+i*1.2106200409311)  
  [4]:  
    (0.281701592759247+i*0.614005054534482)  
  [5]:  
    (-0.354286091446543+i*0.0896741105673902)  
  [6]:  
    (0.251074505987203-i*1.336175335439564)  
[26]:  
  [1]:  
    (-0.596002883843082+i*1.089671850482931)  
  [2]:  
    (-0.288826958730771+i*0.591816541150249)  
  [3]:  
    (0.617282037879421-i*1.345446036065653)  
  [4]:  
    (1.810274352923163+i*0.351799353249802)  
  [5]:  
    (-0.427354638504571-i*0.291776615484816)  
  [6]:  
    (0.251074505987203-i*1.336175335439564)  
[27]:  
  [1]:  
    (-0.598135517137693-i*0.585447746137834)  
  [2]:  
    (-0.159819041386233+i*0.97858165429602)  
  [3]:  
    (0.532299616169901-i*0.103444353835817)  
  [4]:  
    (0.189400196010017-i*0.780034750117955)  
  [5]:  
    (-0.551692603382219+i*0.202102504917426)  
  [6]:  
    (0.251074505987203-i*1.336175335439564)  
[28]:  
  [1]:  
    (-1.652634601548776+i*0.671414019057143)  
  [2]:  
    (0.992130829617419+i*1.839897886562361)  
  [3]:  
    (0.293950587472331-i*1.2106200409311)  
  [4]:  
    (0.281701592759247-i*0.614005054534482)  
  [5]:  
    (-0.354286091446543-i*0.0896741105673902)
```

```

[6]:
(0.251074505987203+i*1.336175335439564)
[29]:
[1]:
(-0.596002883843082-i*1.089671850482931)
[2]:
(-0.288826958730771-i*0.591816541150249)
[3]:
(0.617282037879421+i*1.345446036065653)
[4]:
(1.810274352923163-i*0.351799353249802)
[5]:
(-0.427354638504571+i*0.291776615484816)
[6]:
(0.251074505987203+i*1.336175335439564)
[30]:
[1]:
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[2]:
(-0.159819041386233-i*0.97858165429602)
[3]:
(0.532299616169901+i*0.103444353835817)
[4]:
(0.189400196010017+i*0.780034750117955)
[5]:
(-0.551692603382219-i*0.202102504917426)
[6]:
(0.251074505987203+i*1.336175335439564)
[31]:
[1]:
(0.989762347378112+i*1.424415068693428)
[2]:
(-1.049545658290926-i*2.639331673117822)
[3]:
(0.427459760121224+i*0.832149543434724)
[4]:
(-0.390365150781157-i*0.465652022914856)
[5]:
(-0.00504550727611333-i*0.7020062956554)
[6]:
(0.184726283486408-i*0.691560977223303)
[32]:
[1]:
(-2.85551556065106-i*8.0597432043369)
[2]:
(-23.126643438289809-i*7.877701340007325)
[3]:
(-1.05727907243868+i*1.261188755915909)
[4]:
(-1.501441906106259-i*0.340706854341537)
[5]:
(-0.0482999261633129+i*0.100968338874762)
[6]:
(0.184726283486408-i*0.691560977223303)

```

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[33]:
[1]:
(0.359883035372407-i*0.300576741820982)
[2]:
(0.403565080105162-i*0.751494620144886)
[3]:
(-0.633410492748245+i*0.143733364316997)
[4]:
(0.48841675531923-i*0.950816469436807)
[5]:
(-1.279987899893907+i*0.601037956780638)
[6]:
(0.184726283486408-i*0.691560977223303)
[34]:
[1]:
(0.989762347378112-i*1.424415068693428)
[2]:
(-1.049545658290926+i*2.639331673117822)
[3]:
(0.427459760121224-i*0.832149543434724)
[4]:
(-0.390365150781157+i*0.465652022914856)
[5]:
(-0.00504550727611333+i*0.7020062956554)
[6]:
(0.184726283486408+i*0.691560977223303)
[35]:
[1]:
(-2.85551556065106+i*8.0597432043369)
[2]:
(-23.126643438289809+i*7.877701340007325)
[3]:
(-1.05727907243868-i*1.261188755915909)
[4]:
(-1.501441906106259+i*0.340706854341537)
[5]:
(-0.0482999261633129-i*0.100968338874762)
[6]:
(0.184726283486408+i*0.691560977223303)
[36]:
[1]:
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[2]:
(0.403565080105162+i*0.751494620144886)
[3]:
(-0.633410492748245-i*0.143733364316997)
[4]:
(0.48841675531923+i*0.950816469436807)
[5]:
(-1.279987899893907-i*0.601037956780638)
[6]:
(0.184726283486408+i*0.691560977223303)
[37]:
[1]:
```

```

      (-0.957793686752595+i*1.110169487449516)
[2]:
      (-0.885064881874663-i*0.378836427348196)
[3]:
      (-0.0468334464280645+i*0.601326734347402)
[4]:
      (-0.238371981061922-i*0.879170630450911)
[5]:
      (-0.386500801510419-i*0.219165788313154)
[6]:
      (0.0819655051997221-i*0.778548586243352)
[38]:
[1]:
      (-0.939492918054843-i*1.117640434849119)
[2]:
      (0.864984774916842-i*0.335837384850484)
[3]:
      (-1.422548687909944+i*0.507203191555197)
[4]:
      (-0.128738572263579-i*1.65296281072783)
[5]:
      (-0.387066165247532+i*0.223048402608501)
[6]:
      (0.0819655051997221-i*0.778548586243352)
[39]:
[1]:
      (-0.786373658858756+i*0.0123905263318126)
[2]:
      (0.00670397353389515+i*1.18495018108538)
[3]:
      (-0.287277465044611+i*1.059545291071777)
[4]:
      (-0.623678716004202-i*0.222369777534394)
[5]:
      (-0.559766366575382-i*0.00388261429534645)
[6]:
      (0.0819655051997221-i*0.778548586243352)
[40]:
[1]:
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[2]:
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[3]:
      (-0.0468334464280645-i*0.601326734347402)
[4]:
      (-0.238371981061922+i*0.879170630450911)
[5]:
      (-0.386500801510419+i*0.219165788313154)
[6]:
      (0.0819655051997221+i*0.778548586243352)
[41]:
[1]:
      (-0.939492918054843+i*1.117640434849119)
[2]:

```

```

      (0.864984774916842+i*0.335837384850484)
[3]:
      (-1.422548687909944-i*0.507203191555197)
[4]:
      (-0.128738572263579+i*1.65296281072783)
[5]:
      (-0.387066165247532-i*0.223048402608501)
[6]:
      (0.0819655051997221+i*0.778548586243352)
[42]:
[1]:
      (-0.786373658858756-i*0.0123905263318126)
[2]:
      (0.00670397353389515-i*1.18495018108538)
[3]:
      (-0.287277465044611-i*1.059545291071777)
[4]:
      (-0.623678716004202+i*0.222369777534394)
[5]:
      (-0.559766366575382+i*0.00388261429534645)
[6]:
      (0.0819655051997221+i*0.778548586243352)
[43]:
[1]:
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[2]:
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[3]:
      (-0.622190101741968+i*1.2323732501286)
[4]:
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[5]:
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[6]:
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[44]:
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[3]:
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[4]:
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[5]:
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[6]:
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[45]:
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[2]:
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[3]:

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      (-0.326460853119771+i*0.646621702069147)
[4]:
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[5]:
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[6]:
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[46]:
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[3]:
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[49]:
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[2]:
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[3]:
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[4]:

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[5]:
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[2]:
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[4]:
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[5]:
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[5]:

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[3]:
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[4]:
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[4]:
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[5]:
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[6]:

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  [6]:
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[62]:

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  [3]:
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  [4]:
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  [6]:
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[70]:
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  [2]:
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  [3]:
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  [4]:
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  [4]:  
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  [4]:  
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[86]:  
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[91]:
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[4]:
(-1.05727907243868-i*1.261188755915909)
[5]:
(-0.0482999261633129-i*0.100968338874762)
[6]:
(-0.184726283486408-i*0.691560977223303)
[93]:
[1]:
(0.359883035372407+i*0.300576741820982)
[2]:
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[3]:
(0.48841675531923+i*0.950816469436807)
[4]:
(-0.633410492748245-i*0.143733364316997)
[5]:
(-1.279987899893907-i*0.601037956780638)
[6]:
(-0.184726283486408-i*0.691560977223303)
[94]:
[1]:
(0.989762347378112+i*1.424415068693428)
[2]:
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[3]:
(-0.390365150781157-i*0.465652022914856)
[4]:
(0.427459760121224+i*0.832149543434724)
[5]:
(-0.00504550727611333-i*0.7020062956554)
[6]:
(-0.184726283486408+i*0.691560977223303)
[95]:
[1]:
(-2.85551556065106-i*8.0597432043369)
[2]:

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(23.126643438289809+i*7.877701340007325)
[3]:
(-1.501441906106259-i*0.340706854341537)
[4]:
(-1.05727907243868+i*1.261188755915909)
[5]:
(-0.0482999261633129+i*0.100968338874762)
[6]:
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[96]:
[1]:
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[2]:
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(0.48841675531923-i*0.950816469436807)
[4]:
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[5]:
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[6]:
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[97]:
[1]:
(-1.652634601548776+i*0.671414019057143)
[2]:
(-0.992130829617419-i*1.839897886562361)
[3]:
(0.281701592759247-i*0.614005054534482)
[4]:
(0.293950587472331-i*1.2106200409311)
[5]:
(-0.354286091446543-i*0.0896741105673902)
[6]:
(-0.251074505987203-i*1.336175335439564)
[98]:
[1]:
(-0.596002883843082-i*1.089671850482931)
[2]:
(0.288826958730771+i*0.591816541150249)
[3]:
(1.810274352923163-i*0.351799353249802)
[4]:
(0.617282037879421+i*1.345446036065653)
[5]:
(-0.427354638504571+i*0.291776615484816)
[6]:
(-0.251074505987203-i*1.336175335439564)
[99]:
[1]:
(-0.598135517137693+i*0.585447746137834)
[2]:
(0.159819041386233+i*0.97858165429602)
[3]:

```

```

(0.189400196010017+i*0.780034750117955)
[4]:
(0.532299616169901+i*0.103444353835817)
[5]:
(-0.551692603382219-i*0.202102504917426)
[6]:
(-0.251074505987203-i*1.336175335439564)
[100]:
[1]:
(-1.652634601548776-i*0.671414019057143)
[2]:
(-0.992130829617419+i*1.839897886562361)
[3]:
(0.281701592759247+i*0.614005054534482)
[4]:
(0.293950587472331+i*1.2106200409311)
[5]:
(-0.354286091446543+i*0.0896741105673902)
[6]:
(-0.251074505987203+i*1.336175335439564)
[101]:
[1]:
(-0.596002883843082+i*1.089671850482931)
[2]:
(0.288826958730771-i*0.591816541150249)
[3]:
(1.810274352923163+i*0.351799353249802)
[4]:
(0.617282037879421-i*1.345446036065653)
[5]:
(-0.427354638504571-i*0.291776615484816)
[6]:
(-0.251074505987203+i*1.336175335439564)
[102]:
[1]:
(-0.598135517137693-i*0.585447746137834)
[2]:
(0.159819041386233-i*0.97858165429602)
[3]:
(0.189400196010017-i*0.780034750117955)
[4]:
(0.532299616169901-i*0.103444353835817)
[5]:
(-0.551692603382219+i*0.202102504917426)
[6]:
(-0.251074505987203+i*1.336175335439564)
[103]:
[1]:
(2.385369974863955+i*0.441361180987026)
[2]:
(4.53056697526151+i*1.103065647246238)
[3]:
(-0.106206683114771+i*0.449148340779966)
[4]:

```

```

(0.681138931444903-i*0.464692280165189)
[5]:
(0.655315720113476-i*0.208775219180746)
[6]:
(-0.468435623759932-i*0.777163850988568)
[104]:
[1]:
(12.818092929007386-i*4.926176851849022)
[2]:
(-45.284541136532436+i*26.938931921581205)
[3]:
(-1.319430424510625-i*1.2045165334852)
[4]:
(-0.498589939919732-i*2.108538160470867)
[5]:
(0.0720903173400666+i*0.0300496581518177)
[6]:
(-0.468435623759932-i*0.777163850988568)
[105]:
[1]:
(0.518360120309197-i*0.0417720741069623)
[2]:
(-0.43632123494839+i*0.135997575659869)
[3]:
(1.001838200025711+i*0.683482408704743)
[4]:
(-0.413386902064433+i*0.377383565675711)
[5]:
(-2.060739370786876+i*0.178725561028928)
[6]:
(-0.468435623759932-i*0.777163850988568)
[106]:
[1]:
(2.385369974863955-i*0.441361180987026)
[2]:
(4.53056697526151-i*1.103065647246238)
[3]:
(-0.106206683114771-i*0.449148340779966)
[4]:
(0.681138931444903+i*0.464692280165189)
[5]:
(0.655315720113476+i*0.208775219180746)
[6]:
(-0.468435623759932+i*0.777163850988568)
[107]:
[1]:
(12.818092929007386+i*4.926176851849022)
[2]:
(-45.284541136532436-i*26.938931921581205)
[3]:
(-1.319430424510625+i*1.2045165334852)
[4]:
(-0.498589939919732+i*2.108538160470867)
[5]:

```

```

(0.0720903173400666-i*0.0300496581518177)
[6]:
(-0.468435623759932+i*0.777163850988568)
[108]:
[1]:
(0.518360120309197+i*0.0417720741069623)
[2]:
(-0.43632123494839-i*0.135997575659869)
[3]:
(1.001838200025711-i*0.683482408704743)
[4]:
(-0.413386902064433-i*0.377383565675711)
[5]:
(-2.060739370786876-i*0.178725561028928)
[6]:
(-0.468435623759932+i*0.777163850988568)
[109]:
[1]:
(1.359402124563056+i*1.642352759083765)
[2]:
(1.603812846531419+i*3.361585959529432)
[3]:
(0.256419507489642+i*0.215166111527453)
[4]:
(0.702323701813534-i*0.411935381764477)
[5]:
(0.127154813986308-i*0.581056831077682)
[6]:
(-0.824974435031358-i*1.390707265197068)
[110]:
[1]:
(0.259894006648671-i*8.104109962589794)
[2]:
(14.389381467149381+i*18.009518780157693)
[3]:
(0.816216597721111-i*2.291391708113429)
[4]:
(2.288490970420659-i*1.920312959773512)
[5]:
(-0.0111757372568355+i*0.122373557917417)
[6]:
(-0.824974435031358-i*1.390707265197068)
[111]:
[1]:
(0.372835513187716-i*0.198487129223209)
[2]:
(-0.339566831551303+i*0.620564587383241)
[3]:
(1.05939271450643+i*0.621367812536925)
[4]:
(0.137951662039964+i*0.387276239421496)
[5]:
(-1.449312410062806+i*0.458683273160266)
[6]:

```

```

      (-0.824974435031358-i*1.390707265197068)
[112]:
  [1]:
    (1.359402124563056-i*1.642352759083765)
  [2]:
    (1.603812846531419-i*3.361585959529432)
  [3]:
    (0.256419507489642-i*0.215166111527453)
  [4]:
    (0.702323701813534+i*0.411935381764477)
  [5]:
    (0.127154813986308+i*0.581056831077682)
  [6]:
    (-0.824974435031358+i*1.390707265197068)
[113]:
  [1]:
    (0.259894006648671+i*8.104109962589794)
  [2]:
    (14.389381467149381-i*18.009518780157693)
  [3]:
    (0.816216597721111+i*2.291391708113429)
  [4]:
    (2.288490970420659+i*1.920312959773512)
  [5]:
    (-0.0111757372568355-i*0.122373557917417)
  [6]:
    (-0.824974435031358+i*1.390707265197068)
[114]:
  [1]:
    (0.372835513187716+i*0.198487129223209)
  [2]:
    (-0.339566831551303-i*0.620564587383241)
  [3]:
    (1.05939271450643-i*0.621367812536925)
  [4]:
    (0.137951662039964-i*0.387276239421496)
  [5]:
    (-1.449312410062806-i*0.458683273160266)
  [6]:
    (-0.824974435031358+i*1.390707265197068)
[115]:
  [1]:
    (-0.727117404359727+i*1.062822946727292)
  [2]:
    (0.0474342875874572+i*0.0254504866453305)
  [3]:
    (-0.518616520553573+i*0.170138267119806)
  [4]:
    (0.42196879333238-i*0.140527099177768)
  [5]:
    (-0.419964985922571-i*0.25843548489165)
  [6]:
    (-1.389758889996106-i*0.486378537939932)
[116]:

```

```

[1]:
  (-1.025692664161746-i*0.613064294841613)
[2]:
  (-0.47453805968051+i*1.116800621887435)
[3]:
  (2.133250760378274+i*0.710430595607088)
[4]:
  (-1.227210517261125-i*0.00549345588578142)
[5]:
  (-0.452236363351381+i*0.136866747905453)
[6]:
  (-1.389758889996106-i*0.486378537939932)
[117]:
  [1]:
    (-1.027651960961238-i*0.534552137918721)
  [2]:
    (0.415117163088272-i*1.176426920557871)
  [3]:
    (-0.81483979186379+i*0.00364752940723909)
  [4]:
    (-1.740848922069183-i*0.571106023776653)
  [5]:
    (-0.461131984059381+i*0.121568736986197)
  [6]:
    (-1.389758889996106-i*0.486378537939932)
[118]:
  [1]:
    (-0.727117404359727-i*1.062822946727292)
  [2]:
    (0.0474342875874572-i*0.0254504866453305)
  [3]:
    (-0.518616520553573-i*0.170138267119806)
  [4]:
    (0.42196879333238+i*0.140527099177768)
  [5]:
    (-0.419964985922571+i*0.25843548489165)
  [6]:
    (-1.389758889996106+i*0.486378537939932)
[119]:
  [1]:
    (-1.025692664161746+i*0.613064294841613)
  [2]:
    (-0.47453805968051-i*1.116800621887435)
  [3]:
    (2.133250760378274-i*0.710430595607088)
  [4]:
    (-1.227210517261125+i*0.00549345588578142)
  [5]:
    (-0.452236363351381-i*0.136866747905453)
  [6]:
    (-1.389758889996106+i*0.486378537939932)
[120]:
  [1]:
    (-1.027651960961238+i*0.534552137918721)

```

```

[2]:
  (0.415117163088272+i*1.176426920557871)
[3]:
  (-0.81483979186379-i*0.00364752940723909)
[4]:
  (-1.740848922069183+i*0.571106023776653)
[5]:
  (-0.461131984059381-i*0.121568736986197)
[6]:
  (-1.389758889996106+i*0.486378537939932)
[121]:
  [1]:
    (-0.719567633338283-i*1.061187771245258)
  [2]:
    (0.0432437934068117+i*0.146281075779216)
  [3]:
    (1.134008581770614+i*0.501763092788966)
  [4]:
    (0.731324401108206+i*0.0547166694724529)
  [5]:
    (-0.421149649021088+i*0.259901878088846)
  [6]:
    (-4.296707176046358-i*8.713430122870434)
[122]:
  [1]:
    (-1.143032996732431+i*0.554500269613977)
  [2]:
    (-0.510800194641771-i*1.2625171445335)
  [3]:
    (1.35977048823019-i*0.101736127291996)
  [4]:
    (1.593038836769857+i*0.566913004232311)
  [5]:
    (-0.437348230576291-i*0.113161912177514)
  [6]:
    (-4.296707176046358-i*8.713430122870434)
[123]:
  [1]:
    (-0.922400425792338+i*0.594085742185468)
  [2]:
    (0.379158058202802+i*1.061331964365267)
  [3]:
    (0.557169628566901-i*0.198279351831958)
  [4]:
    (0.737450644486099-i*0.326298691301623)
  [5]:
    (-0.474835453735954-i*0.146739965911332)
  [6]:
    (-4.296707176046358-i*8.713430122870434)
[124]:
  [1]:
    (-0.719567633338283+i*1.061187771245258)
  [2]:
    (0.0432437934068117-i*0.146281075779216)

```

```

[3]:
(1.134008581770614-i*0.501763092788966)
[4]:
(0.731324401108206-i*0.0547166694724529)
[5]:
(-0.421149649021088-i*0.259901878088846)
[6]:
(-4.296707176046358+i*8.713430122870434)
[125]:
[1]:
(-1.143032996732431-i*0.554500269613977)
[2]:
(-0.510800194641771+i*1.2625171445335)
[3]:
(1.35977048823019+i*0.101736127291996)
[4]:
(1.593038836769857-i*0.566913004232311)
[5]:
(-0.437348230576291+i*0.113161912177514)
[6]:
(-4.296707176046358+i*8.713430122870434)
[126]:
[1]:
(-0.922400425792338-i*0.594085742185468)
[2]:
(0.379158058202802-i*1.061331964365267)
[3]:
(0.557169628566901+i*0.198279351831958)
[4]:
(0.737450644486099+i*0.326298691301623)
[5]:
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[6]:
(-4.296707176046358+i*8.713430122870434)
[2]:
1

```

\\ Indicates that each above
solution has multiplicity one

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- [1] G.-M. Greuel, G. Pfister, H. Schönemann. SINGULAR, A System for Polynomial Computations, version 3.1. Available at <http://www.singular.uni-kl.de/>
- [2] C. Lyons. *The Tate Conjecture for a family of surfaces of general type with $p_g = q = 1$ and $K^2 = 3$* . Available at <http://mathfaculty.fullerton.edu/clyons/data/index.htm>
- [3] C. Lyons. *Singular code for "The Tate Conjecture for a family of surfaces of general type with $p_g = q = 1$ and $K^2 = 3$ "*. Available at <http://mathfaculty.fullerton.edu/clyons/data/index.htm>