```
N = 282 = 2*3*47

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(282))) = 197

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(282))^+ is 49
 the nonlift dimension of S_4(K(282))^+ is heuristically 104
 dim(S_4(K(282))^+) thus is heuristically 153
 dim(S_4(K(282))^-) is heuristically 44

dim(J_{2,282}^{cusp}) = 5 (Skoruppa-Zagier), so need to span to within 4 dimensions

q = 5 for TraceDown
After TD(Grit(J_{4,1410}^{cusp})) and (Grit(J_{2,282}^{cusp}))^2,
 spanned rank in S_4(K(282))^+ is 151
 spanned rank in S_4(K(282))^- is 0

Hecke operators applied: {{{2, 2}}, {{2, 2}, {2, 1}}, {{3, 2}}, {{2, 2}, {3, 1}}}
After Hecke spreading,
 spanned rank in S_4(K(282))^- is 27

After Borcherds products,
 spanned rank in S_4(K(282))^- is 41

Final spanned rank in S_4(K(282))^+ is 151
Final spanned rank in S_4(K(282))^- is 41

--------------------------------------------------------------------------------

S_2(K(282)) is determined by Jacobi restriction and the H4Nd1(2  ) test
 (dim(H_4(282,2,1)) <= 5 and this is less than dim(J_{2,282}^{cusp})+1 = 6)

So S_2(K(282)) = Grit(J_{2,282}^{cusp}) (dimension 5)
```