```
N = 298 = 2*149

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(298))) = 223

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(298))^+ is 57
 the nonlift dimension of S_4(K(298))^+ is heuristically 128
 dim(S_4(K(298))^+) thus is heuristically 185
 dim(S_4(K(298))^-) is heuristically 38

dim(J_{2,298}^{cusp}) = 8 (Skoruppa-Zagier), so need to span to within 7 dimensions

q = 5 for TraceDown
After TD(Grit(J_{4,1490}^{cusp})) and (Grit(J_{2,298}^{cusp}))^2,
 spanned rank in S_4(K(298))^+ is 182
 spanned rank in S_4(K(298))^- is 0

Hecke operators applied: {{{2, 2}}, {{2, 2}, {2, 1}}}
After Hecke spreading,
 spanned rank in S_4(K(298))^- is 24

After Borcherds products,
 spanned rank in S_4(K(298))^- is 33

Final spanned rank in S_4(K(298))^+ is 182
Final spanned rank in S_4(K(298))^- is 33

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

S_2(K(298)) is determined by Jacobi restriction and the H4Nd1(4  ) test
 (dim(H_4(298,4,1)) <= 8 and this is less than dim(J_{2,298}^{cusp})+1 = 9)

So S_2(K(298)) = Grit(J_{2,298}^{cusp}) (dimension 8)
```