```
N = 226 = 2*113

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(226))) = 134

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(226))^+ is 43
 the nonlift dimension of S_4(K(226))^+ is heuristically 75
 dim(S_4(K(226))^+) thus is heuristically 118
 dim(S_4(K(226))^-) is heuristically 16

dim(J_{2,226}^{cusp}) = 6 (Skoruppa-Zagier), so need to span to within 5 dimensions

q = 7 for TraceDown
After TD(Grit(J_{4,1582}^{cusp})) and (Grit(J_{2,226}^{cusp}))^2,
 spanned rank in S_4(K(226))^+ is 117
 spanned rank in S_4(K(226))^- is 0

Hecke operators applied: {{{2, 2}}}
After Hecke spreading,
 spanned rank in S_4(K(226))^- is 12

Final spanned rank in S_4(K(226))^+ is 117
Final spanned rank in S_4(K(226))^- is 12

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

S_2(K(226)) is determined by Jacobi restriction and the H4Nd1(3  ) test
 (dim(H_4(226,3,1)) <= 5 and this is less than dim(J_{2,226}^{cusp})+1 = 7)

So S_2(K(226)) = Grit(J_{2,226}^{cusp}) (dimension 6)
```