```
N = 249 = 3 * 83
By the Ibukiyama-Kitayama dimension formula,
dim(S_4(K(249))) = 139
By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S 4(K(249))^+ is 45
 the nonlift dimension of S_4(K(249))^+ is heuristically 82
 dim(S_4(K(249))^+) thus is heuristically 127
 dim(S 4(K(249))^-) is heuristically 12
dim(J_{2,249}^{cusp}) = 5 (Skoruppa-Zagier), so need to span to within 4 dimensions
q = 7 for TraceDown
After TD(Grit(J_{4,1743}^{cusp})) and (Grit(J_{2,249}^{cusp}))^2,
 spanned rank in S_4(K(249))^+ is 126
 spanned rank in S_4(K(249))^- is 0
Hecke operators applied: {{{3, 2}}}
After Hecke spreading,
 spanned rank in S_4(K(249))^- is 4
After Borcherds products,
 spanned rank in S 4(K(249))^- is 10
Final spanned rank in S_4(K(249))^+ is 126
Final spanned rank in S_4(K(249))^- is 10
```

 $\dim(S_2(K(249))^+)$  is bounded by Jacobi restriction and the H4Nd1(3,+) test