```
N = 235 = 5*47

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(235))) = 125

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(235))^+ is 44
 the nonlift dimension of S_4(K(235))^+ is heuristically 70
 dim(S_4(K(235))^+) thus is heuristically 114
 dim(S_4(K(235))^-) is heuristically 11

dim(J_{2,235}^{cusp}) = 6 (Skoruppa-Zagier), so need to span to within 5 dimensions

q = 7 for TraceDown
After TD(Grit(J_{4,1645}^{cusp})) and (Grit(J_{2,235}^{cusp}))^2,
 spanned rank in S_4(K(235))^+ is 114
 spanned rank in S_4(K(235))^- is 0

After Borcherds products,
 spanned rank in S_4(K(235))^- is 7

Final spanned rank in S_4(K(235))^+ is 114
Final spanned rank in S_4(K(235))^- is 7

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

S_2(K(235))^+ is determined by Jacobi restriction and the H4Nd1(3,+) test
 (dim(H_4(235,3,1)^+) <= 4 and this is less than dim(J_{2,235}^{cusp})+1 = 7)
S_2(K(235))^- = 0 by Jacobi restriction and the H4Nd1(1,-) test
 (dim(H_4(235,1,1)^-) <= 4 and this is less than dim(J_{2,235}^{cusp}) = 6)

So S_2(K(235)) = Grit(J_{2,235}^{cusp}) (dimension 6)
```