```
N = 218 = 2 * 109
By the Ibukiyama-Kitayama dimension formula,
dim(S_4(K(218))) = 119
By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S 4(K(218))^+ is 41
 the nonlift dimension of S_4(K(218))^+ is heuristically 55
 dim(S_4(K(218))^+) thus is heuristically 96
 dim(S 4(K(218))^-) is heuristically 23
dim(J_{2,218}^{cusp}) = 6 (Skoruppa-Zagier), so need to span to within 5 dimensions
q = 5 for TraceDown
After TD(Grit(J_{4,1090}^{cusp})) and (Grit(J_{2,218}^{cusp}))^2,
 spanned rank in S_4(K(218))^+ is 96
 spanned rank in S_4(K(218))^- is 0
Hecke operators applied: \{\{\{2, 2\}\}, \{\{2, 2\}, \{2, 1\}\}\}\}
After Hecke spreading,
 spanned rank in S_4(K(218))^- is 17
```

 $(\dim(H_4(218,1,1)^-) <= 3 \text{ and this is less than } \dim(J_{2,218}^{cusp}) = 6)$

 $S_2(K(218))^- = 0$ by Jacobi restriction and the H4Nd1(1,-) test

So $S_2(K(218)) = Grit(J_{2,218}^{cusp})$ (dimension 6)