

$$B_7(q) \bmod l, d = 6 \quad ((q^2 - q + 1)_l > 7)$$

[illegible]

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|               | $ps$ | $ps$ | $B_2$ | $ps$ | $ps$ | $ps$ | $ps$ | $B_2$ | $B_6$ | $ps$ | $B_2 : .1$ | $.111$ | $ps$ | $ps$ | $11111.$ | $B_2 : .1$ |
|---------------|------|------|-------|------|------|------|------|-------|-------|------|------------|--------|------|------|----------|------------|
| 7.            | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 52.           | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1.6           | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 2.5           | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_2 : 32.$   | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1.51          | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 421.          | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_2 : 31.1$  | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 22.3          | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| .511          | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_2 : 11.3$  | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 221.2         | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_2 : 3.11$  | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 3211.         | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1.411         | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 11.311        | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 2211.1        | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_2 : 1.31$  | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_6 : 11$    | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 111.211       | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_2 : .32$   | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1.3111        | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 22111.        | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1111.111      | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1.21111       | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1111111.      | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1.111111      | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| .7            | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 6.1           | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 51.1          | .    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 3.4           | 1    | .    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 31.3          | 1    | 1    | .     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_2 : 221.$  | .    | .    | 1     | .    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| .52           | .    | .    | .     | 1    | .    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 411.1         | .    | .    | .     | .    | 1    | .    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 1.42          | 1    | .    | .     | 1    | .    | 1    | .    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| 311.2         | .    | 1    | .     | .    | 1    | .    | 1    | .     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_2 : 211.1$ | .    | .    | 1     | .    | .    | .    | .    | 1     | .     | .    | .          | .      | .    | .    | .        | .          |
| $B_6 : 2$     | .    | .    | .     | .    | .    | .    | .    | .     | 1     | .    | .          | .      | .    | .    | .        | .          |
| 11.32         | 1    | 1    | .     | .    | .    | 1    | .    | .     | .     | 1    | .          | .      | .    | .    | .        | .          |

|               | .111 | $ps$ | $B_2 : .1$ | $A_5$ | $B_2 : .22$ | .111 | 111111. | .111111 |
|---------------|------|------|------------|-------|-------------|------|---------|---------|
| 7.            | .    | .    | .          | .     | .           | .    | .       | .       |
| 52.           | .    | .    | .          | .     | .           | .    | .       | .       |
| 1.6           | .    | .    | .          | .     | .           | .    | .       | .       |
| 2.5           | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : 32.$   | .    | .    | .          | .     | .           | .    | .       | .       |
| 1.51          | .    | .    | .          | .     | .           | .    | .       | .       |
| 421.          | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : 31.1$  | .    | .    | .          | .     | .           | .    | .       | .       |
| 22.3          | .    | .    | .          | .     | .           | .    | .       | .       |
| .511          | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : 11.3$  | .    | .    | .          | .     | .           | .    | .       | .       |
| 221.2         | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : 3.11$  | .    | .    | .          | .     | .           | .    | .       | .       |
| 3211.         | .    | .    | .          | .     | .           | .    | .       | .       |
| 1.411         | .    | .    | .          | .     | .           | .    | .       | .       |
| 11.311        | .    | .    | .          | .     | .           | .    | .       | .       |
| 2211.1        | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : 1.31$  | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_6 : 11$    | .    | .    | .          | .     | .           | .    | .       | .       |
| 111.211       | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : .32$   | .    | .    | .          | .     | .           | .    | .       | .       |
| 1.3111        | .    | .    | .          | .     | .           | .    | .       | .       |
| 22111.        | .    | .    | .          | .     | .           | .    | .       | .       |
| 1111.111      | .    | .    | .          | .     | .           | .    | .       | .       |
| 1.21111       | .    | .    | .          | .     | .           | .    | .       | .       |
| 1111111.      | .    | .    | .          | .     | .           | .    | .       | .       |
| 1.111111      | .    | .    | .          | .     | .           | .    | .       | .       |
| .7            | .    | .    | .          | .     | .           | .    | .       | .       |
| 6.1           | .    | .    | .          | .     | .           | .    | .       | .       |
| 51.1          | .    | .    | .          | .     | .           | .    | .       | .       |
| 3.4           | .    | .    | .          | .     | .           | .    | .       | .       |
| 31.3          | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : 221.$  | .    | .    | .          | .     | .           | .    | .       | .       |
| .52           | .    | .    | .          | .     | .           | .    | .       | .       |
| 411.1         | .    | .    | .          | .     | .           | .    | .       | .       |
| 1.42          | .    | .    | .          | .     | .           | .    | .       | .       |
| 311.2         | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : 211.1$ | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_6 : 2$     | .    | .    | .          | .     | .           | .    | .       | .       |
| 11.32         | .    | .    | .          | .     | .           | .    | .       | .       |



|               | $ps$ | $ps$ | $B_2$ | $ps$ | $ps$ | $ps$ | $ps$ | $B_2$ | $B_6$   | $ps$ | $B_2 : .1$ | .111 | $ps$ | $ps$ | 11111. | $B_2 : .1$ |
|---------------|------|------|-------|------|------|------|------|-------|---------|------|------------|------|------|------|--------|------------|
| $B_2 : 111.2$ | .    | .    | .     | .    | .    | .    | .    | 1     | .       | .    | 1          | .    | .    | .    | .      | .          |
| .421          | .    | .    | .     | 1    | .    | 1    | .    | .     | .       | .    | .          | 1    | .    | .    | .      | .          |
| 3111.1        | .    | .    | .     | .    | 1    | .    | 1    | .     | .       | .    | .          | .    | 1    | .    | .      | .          |
| 111.22        | .    | 1    | .     | .    | .    | .    | 1    | .     | .       | 1    | .          | .    | .    | 1    | .      | .          |
| 31111.        | .    | .    | .     | .    | .    | .    | .    | .     | .       | .    | .          | .    | 1    | .    | 1      | .          |
| $B_2 : 2.111$ | .    | .    | .     | .    | .    | .    | .    | 1     | .       | .    | .          | .    | .    | .    | .      | 1          |
| .3211         | .    | .    | .     | .    | .    | 1    | .    | .     | .       | 1    | .          | 1    | .    | .    | .      | .          |
| 21111.1       | .    | .    | .     | .    | .    | .    | 1    | .     | .       | .    | .          | .    | 1    | .    | 1      | .          |
| $B_2 : 1.211$ | .    | .    | 1     | .    | .    | .    | .    | 1     | .       | .    | 1          | .    | .    | .    | .      | 1          |
| 11111.11      | .    | .    | .     | .    | .    | .    | 1    | .     | $a$     | .    | .          | .    | .    | 1    | .      | .          |
| $B_2 : .221$  | .    | .    | 1     | .    | .    | .    | .    | .     | .       | .    | .          | .    | .    | .    | .      | .          |
| .22111        | .    | .    | .     | .    | .    | .    | .    | .     | .       | 1    | .          | .    | .    | 1    | .      | .          |
| 111111.1      | .    | .    | .     | .    | .    | .    | .    | .     | $a + 2$ | .    | .          | .    | .    | .    | 1      | .          |
| .1111111      | .    | .    | .     | .    | .    | .    | .    | .     | $a$     | .    | .          | .    | .    | 1    | .      | .          |

|               | .111 | $ps$ | $B_2 : .1$ | $A_5$ | $B_2 : .22$ | .111 | 111111. | .111111 |
|---------------|------|------|------------|-------|-------------|------|---------|---------|
| $B_2 : 111.2$ | .    | .    | .          | .     | .           | .    | .       | .       |
| .421          | .    | .    | .          | .     | .           | .    | .       | .       |
| 3111.1        | .    | .    | .          | .     | .           | .    | .       | .       |
| 111.22        | .    | .    | .          | .     | .           | .    | .       | .       |
| 31111.        | .    | .    | .          | .     | .           | .    | .       | .       |
| $B_2 : 2.111$ | .    | .    | .          | .     | .           | .    | .       | .       |
| .3211         | 1    | .    | .          | .     | .           | .    | .       | .       |
| 21111.1       | .    | 1    | .          | .     | .           | .    | .       | .       |
| $B_2 : 1.211$ | .    | .    | 1          | .     | .           | .    | .       | .       |
| 11111.11      | .    | 1    | .          | 1     | .           | .    | .       | .       |
| $B_2 : .221$  | .    | .    | 1          | .     | 1           | .    | .       | .       |
| .22111        | 1    | .    | .          | .     | .           | 1    | .       | .       |
| 111111.1      | .    | 1    | .          | 1     | .           | .    | 1       | .       |
| .1111111      | .    | .    | .          | 1     | 2           | 1    | .       | 1       |

## References

- [DM19] O. Dudas and G. Malle. Bounding Harish-Chandra series. *Trans. Amer. Math. Soc.*, 371(9):6511–6530, 2019.