

$$D_4(q) \bmod l, d = 2 \quad (l > 7)$$

	ps	ps	A_1^2	$(A_1^2)'$	D_2	D_4	D_2A_1	A_1	ps	A_1^2	$(A_1^2)'$	D_2	1.111	.1111
.4	1	.	.	.	.	.	.	.	.	.	.	.	.	.
1.3	2	1	.	.	.	.	.	.	.	.	.	.	.	.
2+	1	1	1	.	.	.	.	.	.	.	.	.	.	.
2−	1	1	.	1	.	.	.	.	.	.	.	.	.	.
.31	1	1	.	.	1	.	.	.	.	.	.	.	.	.
D_4	.	.	.	.	.	1	.	.	.	.	.	.	.	.
.22	.	1	1	1	1	.	1	.	.	.	.	.	.	.
11.2	2	2	1	1	1	.	.	1	.	.	.	.	.	.
1.21	.	.	.	.	.	.	.	.	1	.	.	.	.	.
11+	1	1	1	1	1	2	1	1	.	1	.	.	.	.
11−	1	1	1	1	1	2	1	1	.	.	1	.	.	.
.211	1	1	1	1	1	2	1	1	.	.	.	1	.	.
1.111	2	1	1	1	1	4	1	2	.	1	1	1	1	.
.1111	1	.	.	.	.	6	1	1	.	1	1	1	4	1

References

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