

**Cocharge  $K(q,t)$  for  $n=2$** 

|                         |     |        |
|-------------------------|-----|--------|
| $\mu \setminus \lambda$ | [2] | [1, 1] |
| [2]                     | 1   | $q$    |
| [1, 1]                  | 1   | $t$    |

**Cocharge  $K(q,t)$  for  $n=3$** 

|                         |     |           |           |
|-------------------------|-----|-----------|-----------|
| $\mu \setminus \lambda$ | [3] | [2, 1]    | [1, 1, 1] |
| [3]                     | 1   | $q + q^2$ | $q^3$     |
| [2, 1]                  | 1   | $t + q$   | $qt$      |
| [1, 1, 1]               | 1   | $t + t^2$ | $t^3$     |

**Cocharge  $K(q,t)$  for  $n=4$** 

|                         |     |                 |             |                    |              |
|-------------------------|-----|-----------------|-------------|--------------------|--------------|
| $\mu \setminus \lambda$ | [4] | [3, 1]          | [2, 2]      | [2, 1, 1]          | [1, 1, 1, 1] |
| [4]                     | 1   | $q + q^2 + q^3$ | $q^2 + q^4$ | $q^3 + q^4 + q^5$  | $q^6$        |
| [3, 1]                  | 1   | $t + q + q^2$   | $qt + q^2$  | $qt + q^2t + q^3$  | $q^3t$       |
| [2, 2]                  | 1   | $t + qt + q$    | $t^2 + q^2$ | $qt^2 + qt + q^2t$ | $q^2t^2$     |
| [2, 1, 1]               | 1   | $t^2 + t + q$   | $t^2 + qt$  | $t^3 + qt^2 + qt$  | $qt^3$       |
| [1, 1, 1, 1]            | 1   | $t + t^2 + t^3$ | $t^4 + t^2$ | $t^3 + t^4 + t^5$  | $t^6$        |