$H^*(K(\mathbb{Z}/3,1),\mathbb{Z}/3)$

	0	1	2	3	4	5	6	7	8
6	x^3		$x^3\iota_2$	$x^3\beta\iota_2$	$x^3\iota_2^2$	$x^3\iota_2\beta\iota_2$	$x^3\iota_2^3$	x^3b x^3a	x^3d x^3c
5	αx^2		$\alpha x^2\iota_2$	αx^2	$\alpha x^2\iota_2^2$	$\alpha x^2\iota_2\beta\iota_2$	$\alpha x^2\iota_2^3$	$\alpha x^2 b$ $\alpha x^2 a$	$\alpha x^2 d$ $\alpha x^2 c$
4	x^2		$x^2\iota_2$	$x^2\beta\iota_2$	$x^2\iota_2^2$	$x^2\iota_2\beta\iota_2$	$x^2\iota_2^3$	$x^2 b$ $x^2 a$	$x^2 d$ $x^2 c$
3	αx		$\alpha x\iota_2$	$\alpha x\beta\iota_2$	$\alpha x\iota_2^2$	$\alpha x\iota_2\beta\iota_2$	$\alpha x\iota_2^3$	$\alpha x b$ $\alpha x a$	$\alpha x d$ $\alpha x c$
2	x		$x\iota_2$	$x\beta\iota_2$	$x\iota_2^2$	$x\iota_2\beta\iota_2$	$x\iota_2^3$	$x b$ $x a$	$x d$ $x c$
1	α		$\alpha\iota_2$	$\alpha\beta\iota_2$	$\alpha\iota_2^2$	$\alpha\iota_2\beta\iota_2$	$\alpha\iota_2^3$	αb αa	αd αc
0	1		ι_2	$\beta\iota_2$	ι_2^2	$\iota_2\beta\iota_2$	ι_2^3	$P^1\beta\iota_2$ $\iota_2^2\beta\iota_2$	$\beta P^1\beta\iota_2$ ι_2^4

$H^*(K(\mathbb{Z}/3,2),\mathbb{Z}/3)$

The chart is a spectral sequence with vertical axis $H^*(K(\mathbb{Z}/3,1),\mathbb{Z}/3)$ and horizontal axis $H^*(K(\mathbb{Z}/3,2),\mathbb{Z}/3)$.

Row 6: x^3 (col 0), $x^3\iota_2$ (col 2), $x^3\beta\iota_2$ (col 3), $x^3\iota_2^2$ (col 4), $x^3\iota_2\beta\iota_2$ (col 5), $x^3\iota_2^3$ (col 6), x^3b, x^3a (col 7), x^3d, x^3c (col 8).

Row 4: x^2 (col 0), $x^2\beta\iota_2$ (col 3), x^2b (col 7), x^2d (col 8), $\cdots$.

Row 3: $\cdots$.

Row 2: x (col 0), $x\beta\iota_2$ (col 3), xb (col 7), xd (col 8), $\cdots$.

Row 1: $\cdots$.

Row 0: 1 (col 0), $\beta\iota_2$ (col 3), $P^1\beta\iota_2$ (col 7), $\beta P^1\beta\iota_2$ (col 8).

Differentials: $x^2 \to x\beta\iota_2$ and $x \to \beta\iota_2$.

$H^*(K(\mathbb{Z}/3,1),\mathbb{Z}/3)$

$H^*(K(\mathbb{Z}/3,2),\mathbb{Z}/3)$

6 | x^3 $x^3\iota_2$ $x^3\beta\iota_2$ $x^3\iota_2^2$ $x^3\iota_2\beta\iota_2$ $x^3\iota_2^3$ x^3b x^3d x^3a x^3c

4 | $x^2\beta\iota_2$

0 | $P^1\beta\iota_2$ $\beta P^1\beta\iota_2$

- Vertical axis label: $H^*(K(\mathbb{Z}/3,1),\mathbb{Z}/3)$
- Horizontal axis label: $H^*(K(\mathbb{Z}/3,2),\mathbb{Z}/3)$

Row at $y = 6$:
- $x = 0$: x^3
- $x = 2$: $x^3 \iota_2$
- $x = 3$: $x^3 \beta \iota_2$
- $x = 4$: $x^3 \iota_2^2$
- $x = 5$: $x^3 \iota_2 \beta \iota_2$
- $x = 6$: $x^3 \iota_2^3$
- $x = 7$: $x^3 b$, $x^3 a$
- $x = 8$: $x^3 d$, $x^3 c$

Row at $y = 0$:
- $x = 0$: 1
- $x = 7$: $P^1 \beta \iota_2$

Vertical axis tick marks: 0, 1, 2, 3, 4, 5, 6
Horizontal axis tick marks: 0, 1, 2, 3, 4, 5, 6, 7, 8

$H^*(K(\mathbb{Z}/3,2),\mathbb{Z}/3)$

$$1 \qquad\qquad \iota_2 \xrightarrow{\beta^1} \beta\iota_2 \qquad\qquad \iota_2^2 \xrightarrow{\beta^1} \iota_2\beta\iota_2 \qquad\qquad \iota_2^3 \xrightarrow{\beta^2} \substack{P^1\beta\iota_2 \\ \iota_2^2\beta\iota_2} \xrightarrow{\beta} \substack{\beta P^1\beta\iota_2 \\ \iota_2^4}$$

$H^*(K(\mathbb{Z}/3,2),\mathbb{Z})$

$$\mathbb{Z}\{1\} \qquad \mathbb{Z}/3\{\beta\iota_3\} \qquad\qquad \mathbb{Z}/3\{\beta\iota_2^2\} \qquad \mathbb{Z}/9\{\beta\iota_2^3\} \quad \mathbb{Z}/3\{\beta P^1\iota_2\}$$

0	1	2	3	4	5	6	7	8

The chart plots $H^*(K(\mathbb{Z}/3, 1), \mathbb{Z}/3)$ (vertical axis) against $H^*(K(\mathbb{Z}/3, 2), \mathbb{Z}/3)$ (horizontal axis).

Vertical axis label: $H^*(K(\mathbb{Z}/3, 1), \mathbb{Z}/3)$

Horizontal axis label: $H^*(K(\mathbb{Z}/3, 2), \mathbb{Z}/3)$

Entries:

- Row 8: ι_2^4
- Row 8 (below): $\beta P^1 \beta \iota_2$
- Row 7: $\iota_2^2 \beta \iota_2$
- Row 7 (below): $P^1 \beta \iota_2$
- Row 6: ι_2^3; $\iota_2^3 \iota_3$
- Row 5: $\iota_2 \beta \iota_2$; $\iota_2 \beta \iota_2 \iota_3$
- Row 4: ι_2^2; $\iota_2^2 \iota_3$
- Row 3: $\beta \iota_2$; $\beta \iota_2 \iota_3$; $\beta \iota_2 \beta \iota_3$
- Row 2: ι_2; $\iota_2 \iota_3$; $\iota_2 \beta \iota_3$
- Row 0: 1; ι_3; $\beta \iota_3$; $\iota_3 \beta \iota_3$; $P^1 \iota_3$; $P^1 \beta \iota_3$; $(\beta \iota_3)^2$; $\beta P^1 \iota_3$; $\beta P^1 \beta \iota_3$

Differentials (arrows):
- $\iota_2^4 \to \iota_2^3 \iota_3$
- $\iota_2^2 \beta \iota_2 \to \iota_2 \beta \iota_2 \iota_3$
- $\iota_2 \beta \iota_2 \to \beta \iota_2 \iota_3$
- $\iota_2^2 \to \iota_2 \iota_3$
- $\iota_2 \to \iota_3$
- $\iota_2 \beta \iota_3 \to \iota_3 \beta \iota_3$

$H^*(K(\mathbb{Z}/3,1),\mathbb{Z}/3)$

$H^*(K(\mathbb{Z}/3,2),\mathbb{Z}/3)$

8 — $\beta P^1\beta\iota_2$

7 — $P^1\beta\iota_2$

6 — ι_2^3

5 —

4 — $\iota_2^2\iota_3$

3 — $\beta\iota_2$ $\qquad$ $\beta\iota_2\beta\iota_3$

2 —

1 —

0 — 1 $\qquad$ $\beta\iota_3$ $\qquad$ $P^1\iota_3$ $\qquad$ $P^1\beta\iota_3$ $\quad$ $\beta P^1\beta\iota_3$

$(\beta\iota_3)^2$

$\beta P^1\iota_3$

0 1 2 3 4 5 6 7 8 9

$\beta P^1 \beta \iota_2$

$P^1 \beta \iota_2$

ι_2^3

$H^*(K(\mathbb{Z}/3,1),\mathbb{Z}/3)$

$P^1 \beta \iota_3$

$\beta P^1 \beta \iota_3$

$P^1 \iota_3$

1

$H^*(K(\mathbb{Z}/3,2),\mathbb{Z}/3)$

$H^*(K(\mathbb{Z}/3,3),\mathbb{Z}/3)$ 1 $\iota_3 \xrightarrow{\beta^1} \beta\iota_3$

$\iota_3\beta\iota_3 \xrightarrow{\beta^1} \begin{matrix} P^1\beta\iota_3 \\ (\beta\iota_3)^2 \end{matrix} \xrightarrow{\beta^1} \beta P^1\beta\iota_3$

$P^1\iota_3 \xrightarrow{\beta^1} \beta P^1\iota_3$

$H^*(K(\mathbb{Z}/3,3),\mathbb{Z})$ $\mathbb{Z}\{1\}$ $\mathbb{Z}/3\{\beta\iota_3\}$

$\mathbb{Z}/3\{\beta(\iota_3\beta\iota_3)\}$
$\mathbb{Z}/3\{\beta P^1\iota_3\}$ $\mathbb{Z}/3\{\beta P^1\beta\iota_3\}$

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

$H^*(K(\mathbb{Z}/3,3),\mathbb{Z}/3)$

9 | $\beta P^1 \beta \iota_3$

$P^1 \beta \iota_3$

8 | $(\beta \iota_3)^2$

$\beta P^1 \iota_3$

7 | $\iota_3 \beta \iota_3$

$P^1 \iota_3$

6

5

4 | $\beta \iota_3$ $\beta \iota_3 \iota_4$ $\beta \iota_3 \beta \iota_4$

3 | ι_3 $\iota_3 \iota_4$ $\iota_3 \beta \iota_4$

2

1

                                          $\beta P^1 \iota_4$

                              $P^1 \iota_4$

0 | 1 ι_4 $\beta \iota_4$ ι_4^2 $P^1 \beta \iota_4$ $\beta P^1 \beta \iota_4$

                                          $\iota_4 \beta \iota_4$

     0   1   2   3   4   5   6   7   8   9   10

$K(\mathbb{Z}/3,4)$

$H^*(K(\mathbb{Z}/3, 3), \mathbb{Z}/3)$

$K(\mathbb{Z}/3, 4)$

$\beta P^1 \beta \iota_3$ (9)

$P^1 \beta \iota_3$

$(\beta \iota_3)^2$ (8)

$\beta P^1 \iota_3$

$P^1 \iota_3$ (7)

$\beta \iota_3$ (4)

$\beta \iota_3 \beta \iota_4$

1

$\beta \iota_4$

$P^1 \iota_4$

$\beta P^1 \iota_4$

$P^1 \beta \iota_4$

$\beta P^1 \beta \iota_4$

$H^*(K(\mathbb{Z}/3, 3), \mathbb{Z}/3)$

$\beta P^1 \beta \iota_3$

$P^1 \beta \iota_3$

$\beta P^1 \iota_3$

$P^1 \iota_3$

1

$P^1 \iota_4$

$\beta P^1 \iota_4$

$P^1 \beta \iota_4$

$\beta P^1 \beta \iota_4$

$K(\mathbb{Z}/3, 4)$

$H^*(K(\mathbb{Z}/3,3),\mathbb{Z}/3)$

$\beta P^1 \beta \iota_3$

$P^1 \beta \iota_3$

$\beta P^1 \iota_3$

1

$\beta P^1 \iota_4$

$P^1 \beta \iota_4 \qquad \beta P^1 \beta \iota_4$

$K(\mathbb{Z}/3,4)$

$H^*(K(\mathbb{Z}/3,4),\mathbb{Z}/3)$ | 1 | | | | $\iota_4 \xrightarrow{\beta} \beta\iota_4$ | | | | $P^1\iota_4 \xrightarrow{\beta} \beta P^1\iota_4$ $P^1\beta\iota_4 \xrightarrow{\beta} \beta P^1\beta\iota_4$ $\iota_4^2 \xrightarrow{\beta} \iota_4\beta\iota_4$

$H^*(K(\mathbb{Z}/3,4),\mathbb{Z})$ | $\mathbb{Z}\{1\}$ | | | | | $\mathbb{Z}/3\{\beta\iota_4\}$ | | | | $\mathbb{Z}/3\{\beta(\iota_4^2)\}$ $\mathbb{Z}/3\{\beta P^1\iota_4\}$ $\mathbb{Z}/3\{\beta P^1\beta\iota_4\}$

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |