

$$\therefore \text{Tor}_{A_n}^p(R, R) = H(B \otimes_{A_n} R)$$

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$$= B \otimes_{A_n} R = \Gamma(E) \otimes E(W)$$

as algebras.

Let $R = \mathbb{Z}$: then $t^i = u! \gamma_i$, ~~with~~ $\Delta(t)$

$$\Delta(\gamma_i) = \frac{1}{i!} [\Delta(t)]^i = \frac{1}{i!} \sum_{\alpha+\beta=i} \dots$$

$$A_n = P \otimes_{\mathbb{Z}} \mathbb{Z} \Rightarrow$$

$$\text{Coker } P_n(\mathbb{Z}/p, \mathbb{Z}/p) =$$

$$[\text{Tor}_{A_n}^p(\mathbb{Z}/p, \mathbb{Z}/p)]^* =$$

~~$$\Gamma(W) \otimes$$~~

$$\Gamma(t^*) \otimes E(W^*) =$$

$$P(t^*) \otimes E(W^*) \text{ as } \mathbb{H}A:$$

$$t^* = |t| = 2p^{n-2}, \quad W^* = 2p^{n-1}.$$