Erratum to: *Homology of zero-divisors*

The statement of Theorem 6.4 in the paper is incorrect. This statement was originally derived from a computation containing a faulty step. Since most of the reasoning is sound, only the corrected formula and computation of the Euler characteristic need to be presented again.

The corrected statement is:

Theorem 6.4.
Let p, q be primes and $r \geq 2$ an integer. Then

$$\chi(\mathbb{Z}/p^r\mathbb{Z} \times \mathbb{Z}/q^2\mathbb{Z}) = 2 - \chi(\mathbb{Z}/p^r\mathbb{Z}) + \sum_{k=1}^{r-1} \chi(\mathbb{Z}/p^k\mathbb{Z}) - r$$

Corrected computation.

$$\chi(R \times S) = \sum_{n=0}^{\infty}(-1)^n u_n(R \times S)$$

$$= \sum_{n=0}^{\infty}(-1)^n(u_n^1(R \times S) + u_n^2(R \times S) - u_n^3(R \times S))$$

$$= \sum_{n=0}^{\infty}(-1)^n(u_n^1(R \times S) + u_n^2(R \times S) - u_n^{3,S}(R \times S) - u_n^{3,q}(R \times S))$$

$$= \sum_{n=0}^{\infty}(-1)^n(u_n^{1,0}(R\times S)+u_n^{1,1}(R\times S)+\rho\binom{\rho}{n}+\binom{\rho}{n+1}-u_n(R))-\sum_{n=1}^{\infty}\sum_{k=1}^{r-1} u_{n-1}(\mathbb{Z}/p^k\mathbb{Z})-u_0^{3,q}(R\times S)$$

$$= \sum_{n=0}^{\infty}(-1)^n(u_n^{1,0}(R \times S) + u_{n+1}^{1,1}(R \times S)) + \sum_{n=0}^{\infty}(-1)^n(\rho\binom{\rho}{n} + \binom{\rho}{n+1})$$

$$- \sum_{n=0}^{\infty}(-1)^n u_n(R) - \sum_{n=1}^{\infty}(-1)^n \sum_{k=1}^{r-1} u_{n-1}(\mathbb{Z}/p^k\mathbb{Z})) - r$$

$$= u_0^{1,1}(R \times S) + 1 - \chi(R) + \sum_{k=1}^{r-1}\sum_{n=1}^{\infty}(-1)^{n-1}u_{n-1}(\mathbb{Z}/p^k\mathbb{Z}) - r$$

$$= 2 - \chi(R) + \sum_{k=1}^{r-1} \chi(\mathbb{Z}/p^k\mathbb{Z}) - r$$