Journal of Knot Theory and Its Ramifications
Vol. 22, No. 1 (2013) 1392001 (1 page)

DOI: 10.1142/S0218216513920016

ERRATUM

A REMARK ON RASMUSSEN'S INVARIANT OF KNOTS

[Journal of Knot Theory and Its Ramifications, Vol. 16, No. 3 (2007) 333–344]

M. MACKAAY
CAMGSD and Universidade do Algarve,
Dep. de Matemática, Campus de Gambelas,
8005-139 Faro, Portugal
mmackaay@ualg.pt

P. TURNER
Section de Mathématiques, Université de Genève,
2-4 rue du Lièvre, CH-1211, Geneva, Switzerland
prt.maths@gmail.com

P. VAZ
CAMGSD, Instituto Superior Técnico, Avenida Rovisco Pais,
1049-001 Lisboa, Portugal
pvaz.maths@gmail.com

Published 16 January 2013

Keywords: Rasmussen's invariant; Khovanov homology; link homology.

Mathematics Subject Classification 2010: 57M25, 57M27

We are grateful to Robert Lipshitz and Sucharit Sarkar for pointing out two errors in the proof of Proposition 3.2 in our paper [1]. Firstly, the element v, defined in the penultimate displayed equation, need not be a cycle over $\mathbb{Z}$ and secondly, the claim that $s(\lambda\alpha, \mathbb{Z}) = s(\alpha, \mathbb{Z})$, just before the last displayed equation, is false in general.

In consequence, the proof of Proposition 3.2 no longer holds and the proof of Theorem 4.2, which relies on it, is no longer valid. The claim in the statement of Theorem 4.2, namely that the Rasmussen invariants defined over $\mathbb{Q}$ and $\mathbb{F}_p$ for any prime p are all equal, must, for now, again be considered an open question.

Reference

[1] M. Mackaay, P. Turner and P. Vaz, A remark on Rasmussen invariant of knots, *J. Knot Theory Ramifications* **16**(3) (2007) 333–344.