

Title	Corrections and supplements to : "On the Schur indices of the finite unitary groups"
Author(s)	Ohmori, Zyozyu
Citation	Osaka Journal of Mathematics. 18(1) P.289-P.289
Issue Date	1981
Text Version	publisher
URL	<a href="https://doi.org/10.18910/4883">https://doi.org/10.18910/4883</a>
DOI	10.18910/4883
rights	
Note	

*Osaka University Knowledge Archive : OUKA*

<https://ir.library.osaka-u.ac.jp/>

Osaka University

*CORRECTIONS AND SUPPLEMENTS TO*  
**“ON THE SCHUR INDICES OF THE FINITE  
UNITARY GROUPS”**

ZYOZYU OHMORI

(Received October 25, 1979)

Except in the statement of Theorems A and C of [1]  $Q$  must be everywhere replaced by the  $l$ -adic number field  $Q_l$  where  $l$  is any rational prime different from  $p$ . In fact, Lemma 3.1 of [1] holds only for  $Q_l$  (see [2]) so that the argument in the proof of Theorem B holds only for  $Q_l$ . Thus the statement of Main Theorem of [1] must be read:

**Main Theorem.** *Assume that  $p$  and  $q$  are sufficiently large. Then, for any rational prime  $l$  different from  $p$ , the Schur index of any complex irreducible character of  $U(n, q^2)$  over  $Q_l$  is 1.*

In [2], the rational Schur indices of the complex irreducible characters of  $U(2, q^2)$  and  $U(3, q^2)$  are determined for any  $p$  and any  $q$ , and some general results on the Schur indices of  $U(n, q^2)$  for  $n > 3$  are also obtained.

---

**References**

- [1] Z. Ohmori: *On the Schur indices of the finite unitary groups*, Osaka J. Math. **15** (1978), 359–363.
- [2] ———: *On the Schur indices of reductive groups II*, to appear in Quarterly J. Math. Oxford (2).

Department of Mathematics  
Tokyo Metropolitan University  
Fukazawa, Setagaya-ku  
Tokyo 158, Japan

