Journal of Geometry and Physics 13 (1994) 306
North-Holland

JOURNAL OF
GEOMETRY AND
PHYSICS

ERRATUM

Line bundles over families of (super) Riemann surfaces. II: the graded case, J. Geom. Phys. 10 (1993) 269–286

U. Bruzzo [a,*] and J.-A. Domínguez Pérez [b,1]

[a] *Dipartimento di Matematica, Università di Genova, Via L.B. Alberti 4, 16132 Genova, Italy*
[b] *Departamento de Matemática Pura y Aplicada, Universidad de Salamanca, Plaza de la Merced 1–4, 37008 Salamanca, Spain*

The claim at the end of p. 270 that the functor $\tilde{}$ is exact is incorrect. Due to this inadvertent circumstance, the proof of proposition 2.2 must be modified as follows.

By the graded Nakayama lemma [1] it is enough to prove that $\widetilde{R^k\pi_*\mathscr{B}_X}=0$ for all $k>n$. But for $k>n$ and any $y\in Y$ the natural morphism

$$R^k\pi_*\mathscr{B}_X\to R^k\pi_*\mathscr{B}_{X_y}=0$$

is surjective, so that the natural morphism

$$\widetilde{R^k\pi_*\mathscr{B}_X}\to R^k\pi_*(\mathscr{B}_X\otimes_{\mathscr{B}_X}\pi^*\mathscr{O}_Y)=R^k\pi_*\mathscr{O}_X=0$$

is an isomorphism (cf. [2, thm. III.4.10]), and one concludes.

References

[1] C. Bartocci, U. Bruzzo and D. Hernández Ruipérez, *The Geometry of Supermanifolds* (Kluwer, Dordrecht, The Netherlands, 1991).
[2] C. Bănică and O. Stănăşilă, *Méthodes algébriques dans la théorie globale des espaces complexes* (Gauthier-Villars, Paris, France, 1977).

* Corresponding author. E-Mail: BRUZZO@MATGEN.DIMA.UNIGE.IT.
[1] E-Mail: JDP440@RS6000.USAL.ES.

SSDI 0393-0440(94)00010-2