MARCO ABATE

Errata-Corrige : "Iteration theory, compactly divergent sequences and commuting holomorphic maps"

Errata-Corrige
Iteration Theory, Compactly Divergent Sequences
and Commuting Holomorphic Maps

MARCO ABATE

Page 182, in the statement of Theorem 2.17 the hypothesis $H^j(D;\mathbb{Z}) = (0)$ *for all odd j* should be replaced by $H^j(D;\mathbb{Z}) = (0)$ *for all positive j*, i.e., by *D is acyclic*. The theorem may be true in general, but the proof described in the paper works only under this more restrictive hypothesis (the trouble lies in the application of the Lefschetz fixed point theorem at the end of the proof).

Page 169, in the preprint *Holomorphic actions on contractible domains without fixed points*, by M. Abate and P. Heinzner, it is described a bounded pseudoconvex contractible taut domain in $\mathbb{C}^8$ where $\mathbb{Z}_{pq}$ acts holomorphically without fixed points. This means that, in general, the conjecture stated in the paper is false: there are holomorphic self-maps of contractible taut manifolds with periodic points and *without* fixed points. Thus the statement of Theorem 0.4 is the best possible. The conjecture is still open for holomorphic self-maps of contractible strongly pseudoconvex domains.