**MR660517 (83j:32034)** 32M05 (46G20 58B12)
**Stachó, L. L.**
**A projection principle concerning biholomorphic automorphisms.**
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The author is concerned with the problem of describing the group $\text{Aut}(M)$ of holomorphic automorphisms of complex Banach manifolds $M$. The projection principle, which is his main abstract result, provides a sufficient condition (in terms of the Carathéodory or of the Kobayashi metric) to reconstruct the group $\text{Aut}(M)$ from the groups $\text{Aut}(N)$ corresponding to certain submanifolds $N$ of $M$. This principle is well suited for the above mentioned purpose when the manifold $M$ is the open unit ball $B(E)$ of complex Banach spaces $E$ that admit a sufficiently large family of contractive linear projections. By this method the author obtains the description of the group $\text{Aut}\,B(E)$ when $E$ is the space $H_1 \otimes H_2 \otimes \cdots \otimes H_n$ of continuous $n$-linear functionals $f : H_1 \times H_2 \times \cdots \times H_n \to \mathbf{C}$ and the $H_k$ are Hilbert spaces. In the same way he obtains the description of $\text{Aut}\,B(E)$ where $E$ is any atomic Banach lattice. In these two cases the conclusions are hardly attainable with any other known method.

Reviewed by *J. M. Isidro*