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Mariusz Urbanski*, urbanski@unt.edu, and **Volker Mayer**. *The exact value of Hausdorff dimension of escaping sets of class \mathcal{B} meromorphic functions.*

We consider the subclass of class \mathcal{B} consisting of meromorphic functions $f : \mathcal{C} \rightarrow \hat{\mathcal{C}}$ for which infinity is not an asymptotic value and whose all poles have orders uniformly bounded from above. This class was introduced in [BwKo2012] and the Hausdorff dimension $\text{HD}(\mathcal{I}(f))$ of the set $\mathcal{I}(f)$ of all points escaping to infinity under forward iteration of f was estimated therein. In this paper we provide a closed formula for the exact value of $\text{HD}(\mathcal{I}(f))$ identifying it with the critical exponent of the natural series introduced in [BwKo2012]. This exponent is very easy to calculate for many concrete functions. In particular, we construct a function from this class which is of infinite order and for which $\text{HD}(\mathcal{I}(f)) = 0$. (Received September 18, 2021)