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**Multiplication Operators on the Bloch Space
of Bounded Homogeneous Domains**

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Abstract. In this paper, we study the multiplication operators on the Bloch space of a bounded homogeneous domain in \mathbb{C}^n . Specifically, we characterize the bounded and the compact multiplication operators, establish estimates on the operator norm, and determine the spectrum. We prove that the only bounded multiplication operators on the Bloch space of the polydisk are those whose symbol is constant. Furthermore, we prove that for a large class of bounded symmetric domains, the isometric multiplication operators are those whose symbol is a constant of modulus one.

Keywords. Multiplication operators, Bloch space, homogeneous domains.

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