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Zhenyi Liu* (zhenyi.liu@okstate.edu), 300 S. Roselle Rd. , #207, Schaumburg, IL 60193.

Classification of One-sided Incompressible Surfaces in Two Infinite Families of Seifert Fibered Spaces.

In this paper, we identify all one-sided incompressible surfaces, up to isotopy, in the generalized quaternion spaces S^3/Q_{4k} , which are Seifert fibered spaces $M_k = (S^2 : (2, 1), (2, 1), (k, -k + 1))$, $k \geq 2$. The techniques used can be expanded to give the classification of one-sided incompressible surfaces in the minimal layered chain pair triangulations of Seifert fibered spaces $(S^2 : (2, -1), (r + 1, 1), (s + 1, 1))$, $r, s \geq 1$. (Received September 12, 2010)