

**STRONG RIGIDITY AND THE HODGE THEORY OF
REPRESENTING CLASSES BY CAUCHY- RIEMANN
MANIFOLDS**

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Abstract. For a compact Kähler manifold the Hodge filtration filters cohomology classes by representability by closed forms of type (p, q) . In this talk we use the method of strong rigidity to discuss Hodge filtration in the homology setting by considering the representability of homology classes by Cauchy-Riemann manifolds.