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Phillip Harrington* (psharrin@uark.edu) and **Andy Raich**. *The Cauchy-Riemann Complex on Unbounded Domains*.

Our goal is to estimate the solution operator for the Cauchy-Riemann Complex in L^2 Sobolev spaces on unbounded domains. On such domains, the weight function plays a critical role and this forces us to use great care when constructing our Sobolev spaces. With these tools developed, we will construct qualitatively new examples of domains where the Cauchy-Riemann equations can be studied. (Received January 19, 2015)