## 1099-32-256 Irina Mitrea<sup>\*</sup>, 442 Wachman Hall, Department of Mathematics, Temple University, 1805 N. Broad Street, Philadelphoa, PA 19122, and Marius Mitrea and Michael Taylor. Szegö Projections and Kerzman-Stein Formulas.

In this talk I will address the question whether the orthogonal projection P of the Hilbert space  $L^2(\Sigma)$  onto the closed subspace  $\mathcal{H}^2_+(\Sigma)$  (or  $\mathcal{H}^2_-(\Sigma)$ ) has a bounded extension as an operator on  $L^p(\Sigma)$  with  $p \neq 2$ . This is a rather delicate issue, which interfaces tightly with the geometric character of  $\Sigma$ . The main tools are a new generation of commutator estimates and a far-reaching extension of the so-called Kerzman-Stein formula from Complex Analysis. (Received February 10, 2014)