

Seminar on Complex Analysis
Meeting 2007, 29th March 2010
lecture: **Wermer type sets and extension of CR functions**
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Abstract: For each $n \in \mathbb{N}$, $n \geq 2$, we construct an unbounded closed pseudoconcave complete pluripolar set $\mathcal{E} \subset \mathbb{C}^n$ which contains no analytic variety of positive dimension (we call it a *Wermer type set*). We also construct an unbounded strictly pseudoconvex domain $\Omega \subset \mathbb{C}^n$ and a smooth *CR* function f on $\partial\Omega$ which has a single-valued holomorphic extension exactly to the set $\overline{\Omega} \setminus \mathcal{E}$.