

# COMPLEX ANALYSIS SEMINAR

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## VARIATIONS ON BEURLING'S THEOREM

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**ABSTRACT:** By a well-known theorem of Beurling, invariant subspaces of the shift operator on the Hardy space can be described in terms of inner functions. Thus, it is natural to try to generalize this theorem to a wider class of operators. I will discuss some known results in this direction (due to Richter, Shimorin, Olofsson...).

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**Date:** Thursday, December 9, 2010

**Time:** 4pm-5pm

**Place:** UH 3800

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**Webpage:** <http://math.utoledo.edu/~sonmez/complexseminar.html>