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Marcin Bownik* (mownik@uoregon.edu), Department of Mathematics, University of Oregon,
Eugene, OR 97403. *Intersection of dilates of shift-invariant spaces.*

In this talk we prove that if the dimension function of a shift-invariant space V is not constantly ∞ , then the intersection of (negative) dilates of V must be trivial. We also give an example of two refinable shift-invariant spaces with identical spectral functions such that this intersection is either trivial or non-trivial. (Received August 07, 2008)