1108-32-68 **Mustafa Ayyürü**, Quantitative Finance Program, Rutgers Business School, Newark, NJ 07102, and **Emil J. Straube*** (straube@math.tamu.edu), Department of Mathematics, Texas A&M University, College Station, TX 77843. *Compactness of the $\overline{\partial}$-Neumann operator on the intersection of two domains.*

Assume that Ω_1 and Ω_2 are two smooth bounded pseudoconvex domains in $\mathbb{C}^2$ that intersect (real) transversely, and that $\Omega_1 \cap \Omega_2$ is a domain (i.e. is connected). If the $\overline{\partial}$-Neumann operators on Ω_1 and on Ω_2 are compact, then so is the $\overline{\partial}$-Neumann operator on $\Omega_1 \cap \Omega_2$. The corresponding result holds for the $\overline{\partial}$-Neumann operators on $(0, n-1)$-forms on domains in $\mathbb{C}^n$. This is joint work with Mustafa Ayyürü. (Received December 22, 2014)