1162-44-114 **Xuan Thinh Duong** and **Loredana Lanzani*** (llanzani@syr.edu), Department of Mathematics, 900 South Crouse Ave., Syracuse, NY, and **Ji Li** and **Brett D. Wick**. *The commutator of the Cauchy-Szegő projection for domains in $\mathbb{C}^n$ with minimal smoothness.*

Let $D \subset \mathbb{C}^n$ be a bounded, strongly pseudoconvex domain whose boundary bD satisfies the minimal regularity condition of class C^2. We characterize boundedness and compactness in $L^p(bD, \omega)$, for $1 < p < \infty$, of the commutator $[b, S_\omega]$ where S_ω is the Cauchy–Szegő (orthogonal) projection of $L^2(bD, \omega)$ onto the holomorphic Hardy space $H^2(bD, \omega)$ and the measure ω belongs to a family (the "Leray Levi-like" measures) that includes induced Lebesgue measure σ. We next consider a much larger family of measures $\{\Omega\}$ modeled after the Muckenhoupt weights for σ: we define the holomorphic Hardy spaces $H^p(bD, \Omega)$ for any A_p-like measure Ω and we characterize boundedness and compactness of $[b,_\Omega]$ in $L^2(bD, \Omega)$ for any A_2-like measure Ω. Earlier closely related results rely upon an asymptotic expansion, and subsequent pointwise estimates, of the Cauchy–Szegő kernel that are not available in the settings of minimal regularity of bD and/or A_p-like measures. (Received August 28, 2020)