Andrew Raich* (araich@uark.edu) and Michael Tinker. The Szegö kernel on a class of noncompact CR manifolds of high codimension.

We generalize Nagel’s formula for the Szegö kernel and use it to compute the Szegö kernel on a class of noncompact CR manifolds whose tangent space decomposes into one complex direction and several totally real directions. We also discuss the control metric on these manifolds and relate it to the size of the Szegö kernel. (Received January 12, 2015)