1129-46-70 **Mishko Mitkovski** and **Aaron E Ramirez Flores*** (aeramir@g.clemson.edu). *Density results for continuous frames.*

We derive necessary conditions for localization of two continuous frames in terms of generalized Beurling densities, where the localization is understood as follows: for any $\epsilon > 0$ there exists $R > 0$ such that

$$\left| \int_{B^c} \int_B \langle g_x, f_y \rangle \left\langle \widetilde{f}_y, \widetilde{g}_x \right\rangle d\mu(y) d\nu(x) - \int_{B^c} \int_B \langle g_x, f_y \rangle \left\langle \widetilde{f}_y, \widetilde{g}_x \right\rangle d\nu(x) d\mu(y) \right| < \epsilon(\mu + \nu)(B)$$

for all $r \geq R$ and all $B = B(a, r)$.

As an important application we provide necessary density conditions for sampling and interpolation in a very large class of reproducing kernel Hilbert spaces. (Received March 02, 2017)