

1094-15-292

Jameson Cahill* (jcahill@math.duke.edu), **Dustin G. Mixon** and **Nate Strawn**. *Geometry of equal norm tight frames*.

We will discuss several questions about the geometry of the space of equal norm tight frames. First we will show that this space is connected, which answers a long standing open problem. Next we will argue that as an algebraic variety this space is irreducible; this was an unexpected result. From this we can show that a generic equal norm tight frame is full spark. (Received August 26, 2013)