

1162-57-223

**Inanc Baykur\*** (baykur@math.umass.edu) and **Noriyuki Hamada**. *Lefschetz fibrations, symplectic geography and knotted surfaces*.

We will discuss how to build symplectic Lefschetz fibrations with prescribed signature and spin type, along with novel applications to the symplectic geography problem and speculations on exotically knotted orientable surfaces in the 4-sphere. This is joint work with N. Hamada. (Received September 01, 2020)