



DYNAMICAL SYSTEMS SEMINAR

Riemannian submersions with positive sectional curvature

Llohan D. Sperança

Unifesp

Date: 16/09/2021

Time: 15:00

Abstract. A natural question in mathematics is how curvature affects the structure of a manifold. One conjecture that pictures well the situation is the Wilhelm Conjecture:

Suppose $M^{n+k} \rightarrow B^n$ is a Riemannian submersion with $\sec_M \geq 1$. Then $n > k$.

Here we prove an interesting case of this conjecture and present tools that could build dynamical approaches to the full conjecture.

References

- [1] L. D. Sperança (2018). On Riemannian foliations over positively curved manifolds, *J. Geom. Anal.* 28, 3, 2018, 2206-2224.