

# ENTIRE CONFORMAL KILLING GRAPHS IN FOLIATED RIEMANNIAN SPACES

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**Resumo/Abstract:** This work corresponds to the paper [1]. We study the geometry of *entire conformal Killing graphs*, that is, graphs constructed through the flow generated by a complete conformal Killing vector field  $V$  and which are defined over an integral leaf of the foliation  $V^\perp$  orthogonal to  $V$ . In this setting, under a suitable restriction on the norm of the gradient of the function  $z$  which determines such a graph  $\Sigma(z)$ , we establish sufficient conditions to ensure that  $\Sigma(z)$  is totally umbilical and, in particular, an integral leaf of  $V^\perp$ .

## References

- [1] Henrique F. de Lima, Joseilson R. de Lima and Marco A.L. Velásquez, *Entire Conformal Killing Graphs in Foliated Riemannian Spaces*, Journal of Geometric Analysis **25** (2015), 171–188.