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Eliane Santos* (elianess@ime.usp.br), Departamento de Matemática, IME-USP, Rua do Matão 1010, Cidade Universitária, São Paulo, SP 05508-090, Brazil. *Hypersurfaces in $\mathbb{S}^n \times \mathbb{R}$ and $\mathbb{H}^n \times \mathbb{R}$.*

The study of hypersurfaces of the product spaces $\mathbb{S}^n \times \mathbb{R}$ and $\mathbb{H}^n \times \mathbb{R}$, where \mathbb{S}^n and \mathbb{H}^n denote the sphere and hyperbolic space of dimension n , has attracted the attention of several geometers in the last years, for instance, in [1], [2], [3]. In this work we investigate hypersurfaces with constant principal curvatures in $\mathbb{S}^n \times \mathbb{R}$ and $\mathbb{H}^n \times \mathbb{R}$. We will show some results classifying such hypersurfaces, that are part of my PhD project. This work was supported by CNPq and CAPES.

Key words: constant principal curvatures, hypersurfaces, product spaces.

References

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