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COMPACT SPACE-LIKE HYPERSURFACES IN THE DE SITTER SPACE

Abstract

*In [1] Deshmukh proved that; a compact and connected immersed hypersurface  $M$  of  $R^{n+1}$  which has a positive Ricci curvature and whose scalar curvature  $r$  satisfies  $r = \lambda_1(n-1)$ ,  $\lambda_1$  being the first nonzero eigenvalue of  $\Delta$  on  $M$ , isometric to  $S^n(c)$  for some constant  $c$ .*

*In the paper, we discuss a pseudo-Riemannian version of this problem and obtain a result similar to Deshmukh.*