

# Some classification results on biconservative hypersurface in pseudo-Euclidean spaces

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A hypersurface  $M$  in a semi-Euclidean space is called biconservative if the tangential component of  $\Delta^2 x = 0$ , where  $x$  is the position vector of  $M$  and  $\Delta$  is the Laplace operator. This condition is equivalent to being principle direction of gradient of the mean curvature of  $M$  with corresponding principal curvature a constant multiple of the mean curvature. In this talk, we would like to present some of recent classification results on biconservative hypersurfaces that we have obtained.

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