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## ON SOME CLASS OF HYPERSURFACES WITH THREE PRINCIPAL CURVATURES

**Abstract.** We present results on hypersurfaces  $M$  in semi-Riemannian spaces of constant curvature for which the tensor  $H^3$  is expressed by the tensor  $tr(H)H^2$  and a linear combination of the second fundamental tensor  $H$  and the metric tensor  $g$  of  $M$ . We give a curvature characterization of pseudosymmetry type of such hypersurfaces. If such hypersurface is a manifold with pseudosymmetric Weyl tensor then it must be pseudosymmetric. We apply these results to hypersurfaces with three distinct principal curvatures.

This poster is based on the paper

K. Sawicz, *On some class of hypersurfaces with three distinct principal curvatures*, Banach Center Publications **69**, Inst. Math. Polish Acad. Sci., 2005, 145-156.