

CMC hypersurfaces with a canonical principal direction in space forms

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A hypersurface $M \subset \overline{M}$ of the space form \overline{M} has a canonical principal direction (CPD) relative to the closed and conformal vector field Z of \overline{M} if the projection Z^\top of Z to M is a principal direction of M . We show that CPD hypersurfaces with constant mean curvature are foliated by isoparametric hypersurfaces.
