Oscar Palmas\* (oscar.palmas@ciencias.unam.mx), Departamento de Matemáticas, Circuito Exterior, Ciudad Universitaria, 04510 México, DF, Mexico, and Antonio Gervasio Colares. Riemannian and Lorentzian manifolds foliated by (n-1)-umbilical hypersurfaces.

We define closed partially conformal vector fields and give examples of them in both Riemannian/Lorentzian settings. We also show that manifolds admitting such kind of vector fields can be foliated by (n-1)-umbilical hypersurfaces and use this foliation to give a decomposition of the ambient space. Finally we stablish conditions for a hypersurface to be a leaf of the aforementioned foliation. (Received April 10, 2010)