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Quo-Shin Chi* (chi@math.wustl.edu), Department of Mathematics, Washington University, St. Louis, MO 63130. *Classification of isoparametric hypersurfaces with four principal curvatures.*

We outline a classification of isoparametric hypersurfaces with four principal curvatures in spheres when the multiplicity pair $(m_1, m_2) = (3, 4)$. This leaves only the three cases $(m_1, m_2) = (4, 5), (6, 9)$ or $(7, 8)$ unsettled. (Received September 04, 2010)