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Nathan K. Musoke* (msknathan@dal.ca). *Holonomy of 4-Dimensional Neutral Signature Metrics.*

Some properties of holonomy from the literature will be presented and applied to the classification of 4-dimensional neutral signature metrics, specifically degenerate cases in the classification by scalar curvature invariants. Some explicit examples of four-dimensional neutral signature Walker (but not necessarily degenerate Kundt) spaces for which all of the polynomial scalar curvature invariants vanish are examined. (Received August 18, 2014)